



Pre-Qualification Requirement for Vacuum Pump Package

Pre-Qualification Requirement for Vacuum Pump Package

Bidder is required to meet the pre-qualification requirements (PQR) for supply of Condenser Air Evacuation Package (Liquid Ring type Vacuum Pump Package) as per criteria stipulated below. Further, Bidder to furnish documents/ details as per Annexure-1, 2, 3, 4, 5 & 6 (as applicable), along with the technical offer for proven criteria stipulated below.

Description

The Condenser Air Evacuation Pumps (Vacuum Pump Package) are intended to be used for evacuation of air and other non-condensable gases from Surface type Steam Condenser/ Air Cooled Condenser for power plant application during holding and hogging operations.

Qualification Criteria

Only the vendors meeting the below mentioned criteria shall be considered for further evaluation. Vendor to state their response as per Format below:

PRE-QUALIFICATION REQUIREMENTS	
Sr. No.	Note: Bidder is required to meet the PQR as per any one of the Cl. No. 1.0/2.0/3.0. Clause No 3.0 is meant for Indian JV/ Subsidiary bidder only who does not qualify as per Clause No. 1.0 or 2.0.
1.0	<p>Bidder/Vendor (QEM i.e. Qualified Equipment Manufacturer) should have designed, manufactured, tested, supplied and commissioned at least one (1) number "Condenser Air Evacuation Package" (Liquid Ring type Vacuum Pump Package*) as per HEI (Performance Standard for Liquid Ring Vacuum Pumps) having 30 SCFM capacity or higher in Free Dry Air at suction pressure of 1" Hg absolute and subcooled by 7.5 deg F (4.17 degC) at ITD not more than 13.3 deg C for Condenser Power Plant application.</p> <p>PO for above referred Vacuum Pump Package should have been placed within ten years from date of enquiry. Vacuum Pump Package should be in successful operation for a period not less than one (1) year, as on date of enquiry.</p> <p>* <u>Vacuum Pump Package</u> means Liquid Ring type Vacuum Pump along with drive-motor (thru' flexible coupling), closed recirculation system having heat exchanger, recirculation pump, separator tank and all other necessary accessories mounted on common steel base plate/ skid.</p> <p>Bidder to provide supporting document against clause 1.0 as per clause A of Annexure-1.</p>
OR	
2.0 (a)	<p>Bidder/Vendor (QEM i.e. Qualified Equipment Manufacturer) should have designed, manufactured, tested, supplied and commissioned at least one (1) number 'Vacuum Pump' (Liquid Ring type) as per HEI (Performance Standard for Liquid Ring Vacuum Pumps) having 30 SCFM capacity or higher in Free Dry Air at suction pressure of 1" Hg absolute and subcooled by 7.5 deg F (4.17 degC) at ITD not more than 13.3 deg C for Condenser Power Plant application.</p> <p>PO for above referred Vacuum Pump should have been placed within ten years from date of enquiry.</p> <p>Vacuum Pump should be in successful operation for a period not less than one (1) year, as on date of enquiry.</p>
2.0 (b)	<p>In addition to above Sr. no. 2(a), bidder should have designed, manufactured, tested, Type Tested (Saturated/Humid Air Test & Cavitation Test) and supplied at least one (1) number "Condenser Air Evacuation Package" (Liquid Ring type Vacuum Pump Package*) having 20 SCFM capacity or higher in Free Dry Air at suction pressure of 1" Hg absolute and subcooled by 7.5 deg F (4.17 degC) at ITD not more than 13.3 deg C for Condenser Power Plant application.</p> <p>PO for above referred Vacuum Pump Package should have been placed within ten years from date of enquiry.</p> <p>* <u>Vacuum Pump Package</u> means Liquid Ring type Vacuum Pump along with drive-motor (thru' flexible coupling), closed recirculation system having heat exchanger, recirculation pump, separator tank and all other necessary accessories mounted on common steel base plate/ skid.</p> <p>Bidder to provide supporting document against clause 2.0 (a) & 2.0 (b) as per clauses B & C respectively of Annexure-1.</p>

J.S.P.
03-03-2025
(LOKESH S. PANGTEY)
SR. MGR / HXE

03/03/2025
(Shiva Kant)
Sr. Mgr / HXE

03/03/2025
Alok Kishore
(Sr. PM / HXE)

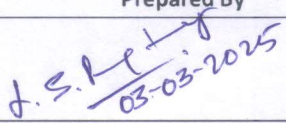
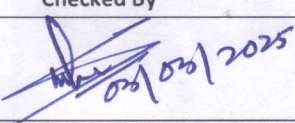
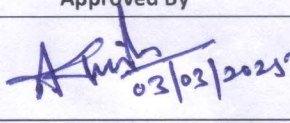


Pre-Qualification Requirement for Vacuum Pump Package

OR	
3.0 (a)	An Indian JV (Joint Venture)/ Subsidiary company or a company having collaboration can also offer, provided that it has a valid Technical collaboration or licensing agreement (for design/engineering, manufacturing, testing and supply of such equipment), in India with a Qualified Equipment Manufacturer (QEM) who meets the requirements stipulated at clause 1.0 above.
3.0 (b)	Indian JV/ Subsidiary bidder should have designed, manufactured, tested, supplied and commissioned at least one (1) number Liquid Ring type Vacuum Pump Package* for any application. PO for above referred vacuum pump package should be placed within ten years from date of enquiry. * <u>Vacuum Pump Package</u> means Liquid Ring type Vacuum Pump along with drive-motor (thru' flexible coupling), closed recirculation system having heat exchanger, recirculation pump, separator tank and all other necessary accessories mounted on common steel base plate/ skid.
3.0 (c)	The Indian bidder (JV/ Subsidiary) should have designed, manufactured & tested the above referred Equipment at Cl. No. 3 (b) as per QEM/Collaborator practice. Bidder to provide supporting document against clause 3.0(a), 3.0(b) & 3.0 (c) as per clause D of Annexure-1.
4.0	Bidder/Vendor (Qualified Equipment Manufacturer) should have minimum following in-house manufacturing and testing facility. (i) Rotor balancing facility (ii) Performance test facility (iii) Type Test Facilities Bidder to provide supporting document against clause 4.0 as per clause E of Annexure-1.
5.0	Bidder/ Vendor has to submit documentary evidence in support of above experience as per documents checklist enclosed at Annexure-1.

General Notes:

- Against bidder's/ vendor's reply, BHEL reserves the right to verify /ask additional information / documents / clarifications. In case any information is found to be false / incorrect, BHEL reserves the right to reject vendor's offer.
- If the Design parameters, Guaranteed figures, Equipment features etc. are not clearly brought out in the bid or not supported by the information required as per specification, or have not been considered in bidder's offer in accordance with specification requirements of reliability, availability, operability and maintainability of the equipment then BHEL has right to reject the bid(s).
- Vendor's offer shall not be considered if vendor fails to furnish the document / information / clarification as mentioned above or vendor doesn't meet the acceptance criteria (mentioned above from Sr. No. 1 to 5).
- All the documents and correspondences shall be accepted in English language only.
- BHEL team may visit Vendor works to assess vendor's manufacturing and testing facilities, if required.

Prepared By	Checked By	Approved By
 03-03-2025	 03/03/2025	 03/03/2025
Lokesh Singh Pangtey (Sr. Manager)	Shiva Kant (Sr. Manager)	Alok Kumar Singh (Sr. DGM)

ANNEXURE-1

Documents/Details to be submitted for proven criteria mentioned in clause 1.0, 2.0, 3.0 & 4.0 of PQR:

Sl. No.	Document details for PQR	Vendors Confirmation Indicating page no. where documents are placed
A) For Clause 1.0 of PQR: Qualified Equipment Manufacturer (QEM) Bidder to submit following documents in support of above confirmation:		
A(a)	Copy of Un-Priced <u>Purchase Order (PO)</u> , placed within ten years from date of enquiry.	YES / NO Page No.
A(b)	<u>Test certificates</u> for Performance Test of Complete Vacuum Pump Package for Capacity & Power vs Suction pressure duly co-relating with PO No./ Serial No. of Vacuum Pump Package. This Test Certificate should be issued by third party inspection agency or acceptance by Customer/ End user.	YES / NO Page No.
A(c)	Copy of End user/ Purchaser certificate issued on letter head as per <u>Annexure-2</u> for successful operation for one year for PO given at Sl. No. A(a).	YES / NO Page No.
A(d)	Details of Vacuum pump package as per <u>Annexure-3</u> supplied against PO given at Sl. No. A(a) for which End user/ Purchaser certificate is being furnished.	YES / NO Page No.
A(e)	Bidders, who have supplied the Vacuum Pump Package against PO given at Sl. No. A(a) to BHEL, need not furnish Test Certificate, End user/ Purchaser certificate (Annexure-2) & Annexure-3.	YES / NO Page No.
B) For Clause 2.0 (a) of PQR: Qualified Equipment Manufacturer (QEM) Bidder to submit following documents in support of above confirmation:		
B(a)	Copy of Un-Priced <u>Purchase Order (PO)</u> , placed within ten years from date of enquiry.	YES / NO Page No.
B(b)	<u>Test certificates</u> for Performance Test of Vacuum Pump for Capacity vs Suction pressure duly co-relating with PO No./ Serial No. of Vacuum Pump. This Test Certificate should be issued by third party inspection agency or acceptance by Customer/ End user.	YES / NO Page No.
B(c)	Copy of End user/ Purchaser certificate issued on letter head as per <u>Annexure-2</u> for successful operation for one year for PO given at Sl. No. B(a).	YES / NO Page No.
B(d)	Details of Vacuum pump as per <u>Annexure-4</u> supplied against PO given at Sl. No. B(a) for which End user/ Purchaser certificate is being furnished.	YES / NO Page No.
B(e)	Bidders, who have supplied the Vacuum Pump against PO given at Sl. No. B(a) to BHEL, need not furnish Test Certificate, End user/ Purchaser certificate (Annexure-2) & Annexure-4.	YES / NO Page No.
C) For Clause 2.0 (b) of PQR: Qualified Equipment Manufacturer (QEM) Bidder to submit following documents in support of above confirmation:		
C(a)	Copy of <u>Un-Priced Purchase Order (PO)</u> , placed within ten years from date of enquiry.	YES / NO Page No.
C(b)	<u>Test certificates</u> for Performance Test of Complete Vacuum Pump Package for Capacity & Power vs Suction pressure duly co-relating with PO No./ Serial No. of	YES / NO Page No.

	Vacuum Pump Package. This Test Certificate should be issued by third party inspection agency or acceptance by Customer/ End user.	
C(c)	<u>Type Test Reports viz. Saturated/Humid Air Test & Cavitation Test</u> of Complete Vacuum Pump Package duly co-relating with PO No./ Serial No. of Vacuum Pump Package. This Test Certificate should be issued by third party inspection agency or acceptance by Customer/ End user.	YES / NO Page No.
C(d)	<u>Dispatch documents</u> of Complete Vacuum Pump Package duly co-relating with PO No./ Serial No. of Vacuum Pump Package.	YES / NO Page No.
C(e)	Details of Vacuum pump package as per <u>Annexure-3</u> supplied against PO given at Sl. No. C(a).	YES / NO Page No.
C(f)	Bidders, who have supplied the Vacuum Pump Package against PO given at Sl. No. C(a) to BHEL, need not furnish Test Certificates (Performance & Type Test), Dispatch documents, End user/ Purchaser certificate (Annexure-2) & Annexure-3.	YES / NO Page No.
D) For Clause 3.0 of PQR: Indian JV/ Subsidiary company Bidder to submit following documents in support of above confirmation:		
D(a)	Documents mentioned against clause no. A as above to meet the requirements stipulated at clause 1.0 for QEM.	YES / NO Page No.
D(b)	Details of Indian Subsidiary/JV Company/Collaborating company as per <u>Annexure-5</u> .	YES / NO Page No.
D(c)	MOU/ certificate of collaboration/ licensing agreement for design, engineering, manufacturing, testing and supply of referred equipment in India.	YES / NO Page No.
D(d)	Copy of Un-priced <u>Purchase Order (PO)</u> against clause 3.0 (b) of PQR.	YES / NO Page No.
D(e)	Copy of commissioning certificate with acceptance from end user/ purchaser, duly co-relating P.O No. / Serial no of Vacuum Pump Package.	YES / NO Page No.
D(f)	<u>Test certificates</u> for Performance Test of Complete Vacuum Pump Package for Capacity & Power vs Suction pressure duly co-relating with PO No./ Serial No. of Vacuum Pump Package against PO given at Sl. No. D(d). This Test Certificate should be issued by third party inspection agency or acceptance by Customer/ End user.	
D(g)	Details of Vacuum pump package as per <u>Annexure-3</u> supplied against PO given at Sl. No. D(d).	YES / NO Page No.
D(h)	Bidder to furnish self-certified certificate in support of clause no 3.0 (c) of PQR.	YES / NO Page No.
D(i)	Bidders, who have supplied the Vacuum Pump Package against PO given at Sl. No. D(d) to BHEL, need not furnish Test Certificate, End user/ Purchaser certificate (Annexure-2) & Annexure-3.	YES / NO Page No.
E) For Clause 4.0 of PQR: Bidder to submit following documents in support of above confirmation:		
E(a)	<u>Annexure-6</u> , signed and stamped by bidder in support of clause no 4.0.	YES / NO Page No.

ANNEXURE-2

Date:

TO WHOM SOEVER IT MAY CONCERN

This is to certify that **M/s XXXXX** have Designed, Manufactured, Tested and supplied Condenser Air Evacuation package (Vacuum pump package), **model no xxxxx** having free dry Air **Capacity xxxx** SCFM at 1’’Hg-a and at **ITD xxxx deg C** for our **xxxxx** Plant(Unit/Rating/City/Country), under our Purchase Order No.**xxxxxx** dated **xxxx**.

The Vacuum pump package was commissioned on dated **xxxxxx** and is in successful operation without any problem since commencement of operation.

Name of the Organization :

Address :

Signature :

Name of the Signatory :

Designation :

Phone No :

Date of issue :

Seal & Stamp of the
Organisation :

Note: If Customer’s letter head is in language other than English then translation in English shall be written below header.

ANNEXURE-3: DETAILS OF EQUIPMENT

Bidder's Name and Address :
XXXXXXX

To
BHEL, HEEP, RANIPUR,
Haridwar-249403

S. No.	Item Description
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CONDENSER AIR EVACUATION PACKAGE (VACUUM PUMP PACKAGE)

- | | | |
|------|--|--------|
| 1.0 | Name, Address, Telephone No. of manufacturer | |
| 2.0 | Name of the Station and its Location | |
| 3.0 | Client Name and its Address, Fax No. & Tel.Nos. | |
| 4.0 | Name and Designation of the responsible person in Client's Organisation | |
| 5.0 | Contract No. & Date | |
| 6.0 | Capacity in MW of Unit and No. of Units (if applicable) | |
| 7.0 | Starting Date of Work/ Date of Order | |
| 8.0 | Scheduled Date of Completion | |
| 9.0 | Actual Date of Completion | |
| 10.0 | Date of Commissioning of System/Package | |
| 11.0 | Whether the System/Equipments are in Successful Operation for a minimum period of one (1) year prior to the date of Techno-Commercial bid opening. | Yes/No |
| 12.0 | Date of Commencement of Successful Operation | |

Signature of authorized signatory.....

S. No.	Item Description
13.0	Brief Scope of Work
14.0	<p>Brief Technical Particulars of the System/Package/Equipments :</p> <ul style="list-style-type: none"> (i) Designed by (ii) Manufactured by (iii) Type (Liquid Ring Type or any other type) (iv) Make / Model No. (v) Number per T.G. Unit (vi) Rated free Dry Air Capacity in SCFM [at 25.4 mm Hg (abs) Suction Pressure at 21.1^oC] of each Pump (vii) Hogging Capacity of each Pump (at 254mm Hg (abs) Suction Pressure in SCFM (viii) I.T.D. (deg.C) (ix) Temp. of Cooling Water to Vacuum Pump Heat Exchanger (deg.C) (x) Type of Heat Exchanger (Shell & Tube Type/Plate Type) (xi) No. of Stages (xii) Whether Air Ejector is provided or not (xiii) Impeller Material

Signature of authorized signatory.....

S. No.	Item Description	
	(xiv) Casing Material	
15.0	Are these Condenser Air Evacuation Pumps running with Steam Turbine Generator Sets	Yes/No
16.0	<u>Motor</u> i. Type ii. Manufacturer iii. Rating iv. Origin of country	
17.0	Seal Water Recirculation Pump i. Type ii. Manufacturer iii. Model	

Signature of authorized signatory.....

ANNEXURE-4 : DETAILS OF EQUIPMENT

Bidder's name and address:

.....
.....

To,
BHEL,HEEP,RANIPUR
HARIDWAR-249403

S. No.	Item Description
VACUUM PUMP	
1	Name, Address, Telephone No. of manufacturer
2	Name of the Plant/Station and its Location
3	Client Name and its Address, Fax No. & Tel.Nos.
4	Name and Designation of the responsible person in Client's Organisation
5	Contract No. & Date
6	Capacity in MW of Unit and No. of Units
7	Starting Date of Work/ Date of Order
8	Scheduled Date of Completion
9	Actual Date of Completion
10	Date of Commissioning
11	Whether the Pump is in Successful Operation for a minimum period of one (1) year prior to the date of Techno-Commercial bid opening. Yes/No
12	Date of Commencement of Successful Operation
13	Brief Scope of Work

14	Brief Technical Particulars of the System/Package/Equipments :
(i)	Designed by
(ii)	Manufactured by
(iii)	Type (Liquid Ring Type or any other type)
(iv)	Make / Model No.
(v)	Number per TG Unit
(vi)	Rated free Dry Air Capacity in SCFM [at 25.4 mm Hg (abs) Suction Pressure at 21.1°C] of each Pump
(xi)	No. of Stages
(xii)	Whether Air Ejector is provided or not
(xiii)	Impeller Material
(xiv)	Casing Material

Signature of Authorized Signatory.....

S. No.	Item Description
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**Details of Subsidiary/JV Company
proposed for manufacturing of
Vacuum pump package**

- | | |
|-----|--|
| 1.0 | Name and Address with Telephone
Number of the Indian Subsidiary /
JV Company proposed for
manufacturing of
(Name of the equipment). |
| 2.0 | Name and Address with Telephone No.
of the promoter(s) of the Subsidiary/
JV Company |
| 3.0 | % of the Equity held by the
promoter(s) |
| 4.0 | Equity lock in period (from the date of
incorporation of JV) |
| 5.0 | Name and Address with Telephone
No. of a promoter of Subsidiary /
JV Company formed
who meets the requirement
of Clause 1.0. |
| 6.0 | M/s. (the subsidiary/
JV Company) has a collaboration or
valid licensing agreement with M/s
(subsidiary/JV promotor) for design,
Engineering, Manufacturing & Supply
of (Name of the
equipment) in India.
(Please furnish details of collaboration/
licensing agreement |

Signature of authorized signatory.....

S. No.	Item Description
7.0	If equity held by the Qualified Equipment Manufacturer
8.0	Whether equity held directly or indirectly ?
9.0	If indirectly then furnish the relationship tree alongwith all relevant subsidiaries holding company
10.0	Please furnish the committment for lock in period as per requirement
11.0	Bidder to furnish documentry evidence \ in support of above date

Date :

(Signature).....

Place :

(Printed Name).....

(Designation).....

(Common Seal).....

Signature of authorized signatory.....

(To be furnished by Bidder on its letter head)

ANNEXURE-6

Date:


Details of minimum in-house manufacturing & Testing facility for Vacuum pump package

This is to certify that M/s..... has following minimum in-house facilities for manufacturing of and Testing of Vacuum pump package:

1. Rotor balancing facility:
 - 1.1. Details of Rotor dynamic balancing M/c.....
2. Performance test facility
 - 2.1. Details of complete set up of Performance Test facility along with set up photographs (as separate attachment)
3. Type Test Facilities:
 - 3.1. Details of complete set up of Saturated Air (Humid Air) Test facility along with set up photographs (as separate attachment)
 - 3.2. Details of complete set up of Cavitation Test facility along with set up photographs (as separate attachment)

Signature :
Name of the Signatory :
Designation :
Phone No :
Email :
Seal & Stamp of the
Organization :

(Note: If letter head is in language other than English then translation in English shall be written below header.)


	PPX-BOI DEPARTMENT BHARAT HEAVY ELECTRICALS LIMITED HEEP: HARDWAR-249 403 (Uttarakhand) TEL: +91 1334 28 1707/1685/5773	BHEL Ref. No. 20243843 Item Name: Condenser Air Evacuation Package (Vacuum Pump Package) Project: 2X800 MW APL Raipur (Ph-II) 2X800 MW Mirzapur PH-I, 2X800 MW Kawai PH-II, 2X800 MW Kawai PH-III, 2X800 MW Mahan TPP (PH-III)
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Buyers Specific Additional Terms & Conditions (ATC) in addition to GTC

1.SCOPE OF ENQUIRY:


Bids on GeM portal invited for the Condenser Air Evacuation Package (Vacuum Pump Package) for 2X800 MW Raipur (Ph-II), 2X800 MW Mirzapur PH-I, 2X800 MW Kawai PH-II, 2X800 MW Kawai PH-III and 2X800 MW Mahan TPP (PH-III) as per requirement mentioned below:

Sl. No.	Material Code & Item Description	Total Qty.	LOT Quantity & Delivery schedule
1	W96716155910: DRG: 31611770098 REV:00 CONDENSER AIR EVACUATION PACKAGE (VACUUM PUMP) 30SCFMSPEC: HE57016 REV: 04, ItemId: BH010	40 Nos.	Raipur-II-1: 4 Nos, 31/10/2026 Raipur-II-2: 4 Nos, 30/04/2027 Mirzapur-I-1: 4 Nos, 30/04/2027 Mirzapur-I-2: 4 Nos, 30/10/2027 Kawai-II-1: 4 Nos, 30/10/2027 Kawai-II-2: 4 Nos, 30/04/2028 Kawai-III-1: 4 Nos, 30/01/2028 Kawai-III-2: 4 Nos, 30/07/2028 Mahan-III-1: 4 Nos, 30/11/2027 Mahan-III-2: 4 Nos, 30/05/2028
2	W96716155317: DRG: - REV:00 COMPLETE VACUUM PUMP (BARE SHAFT VACUUM PUMP) SPEC: HE57016 REV: 04, ItemId: BH010	3 Nos.	Raipur-II-M Spare: 1 No. 30/06/2027 Mirzapur-I-M Spare: 1 No. 30/12/2027 Kawai-II-M Spare: 1 No. 30/06/2028
3	W96716155325: MAIN MOTOR FOR VACUUM PUMP SPEC: HE57016 REV: 04	4 Nos.	Raipur-II-M Spare: 1 No. 30/06/2027 Mirzapur-I-M Spare: 1 No. 30/12/2027 Kawai-II-M Spare: 1 No. 30/06/2028 Kawai-III-M Spare: 1 No. 30/09/2028
4	W97716155067: BEARING FOR MOTOR OF VACUUM PUMP (30 SCFM) (1SET=2NOS) SPEC: HE57016 REV: 04 SIZE: TO SUIT ORIGINAL SUPPLY	4 ST	Raipur-II-M Spare: 1 ST. 30/06/2027 Mirzapur-I-M Spare: 1 ST. 30/12/2027 Kawai-II-M Spare: 1 ST. 30/06/2028 Kawai-III-M Spare: 1 ST. 30/09/2028
5	W97716155822: PRESSURE TRANSMITTER FOR VACUUM PUMP SYSTEM:0-1 BAR ABS, SPEC: HE57016 REV: 04REV 04 ItemId BH010	5 Nos.	Raipur-II-M Spare: 1 No. 30/06/2027 Mirzapur-I-M Spare: 1 No. 30/12/2027 Kawai-II-M Spare: 1 No. 30/06/2028 Kawai-III-M Spare: 1 No. 30/09/2028 Mahan-III-M Spare: 1 No. 30/05/2028
6	W96716155813: LEVEL TRANSMITTER FOR VACUUM PUMP SPEC: HE57016 REV: 04	5 Nos.	Raipur-II-M Spare: 1 No. 30/06/2027 Mirzapur-I-M Spare: 1 No. 30/12/2027 Kawai-II-M Spare: 1 No. 30/06/2028 Kawai-III-M Spare: 1 No. 30/09/2028 Mahan-III-M Spare: 1 No. 30/05/2028
7	W96716155244: DRG: 31611770051 REV:00 TEMPERATURE TRANSMITTER FOR VACUUM PUMP SPEC: HE57016 REV: 04SPEC HE57016 REV 04 ItemId BH010	5 Nos.	Raipur-II-M Spare: 1 No. 30/06/2027 Mirzapur-I-M Spare: 1 No. 30/12/2027 Kawai-II-M Spare: 1 No. 30/06/2028 Kawai-III-M Spare: 1 No. 30/09/2028 Mahan-III-M Spare: 1 No. 30/05/2028

	PPX-BOI DEPARTMENT BHARAT HEAVY ELECTRICALS LIMITED HEEP: HARDWAR-249 403 (Uttarakhand) TEL: +91 1334 28 1707/1685/5773	BHEL Ref. No. 20243843 Item Name: Condenser Air Evacuation Package (Vacuum Pump Package) Project: 2X800 MW APL Raipur (Ph-II) 2X800 MW Mirzapur PH-I, 2X800 MW Kawai PH-II, 2X800 MW Kawai PH-III, 2X800 MW Mahan TPP (PH-III)
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Buyers Specific Additional Terms & Conditions (ATC) in addition to GTC

8	W96716155210: DRG: 31611770047 REV:00 DIFFERENTIAL PRESSURE SWITCH FOR VACUUM PUMP. SPEC: HE57016 REV: 04	5 Nos.	Raipur-II-M Spare: 1 No. 30/06/2027 Mirzapur-I-M Spare: 1 No. 30/12/2027 Kawai-II-M Spare: 1 No. 30/06/2028 Kawai-III-M Spare: 1 No. 30/09/2028 Mahan-III-M Spare: 1 No. 30/05/2028
9	W96716155490: FLOW INDICATOR CUM SWITCH FOR VACUUM PUMP SPEC: HE57016 REV: 04	5 Nos.	Raipur-II-M Spare: 1 No. 30/06/2027 Mirzapur-I-M Spare: 1 No. 30/12/2027 Kawai-II-M Spare: 1 No. 30/06/2028 Kawai-III-M Spare: 1 No. 30/09/2028 Mahan-III-M Spare: 1 No. 30/05/2028
10	W97716155466: TEMPERATURE GAUGE 0-100 DEG C, FOR VACUUM PUMP HEAT EXCHANGER SIZE: 0 TO 100 DEG C	15 Nos.	Raipur-II-M Spare: 3 Nos. 30/06/2027 Mirzapur-I-M Spare: 3 Nos. 30/12/2027 Kawai-II-M Spare: 3 Nos. 30/06/2028 Kawai-III-M Spare: 3 Nos. 30/09/2028 Mahan-III-M Spare: 3 Nos. 30/05/2028
11	W97716155733: DRG: TO SUIT ORIGINAL SUPPLY REV:00 PRESSURE GAUGE (0 TO -1 BAR)	10 Nos.	Raipur-II-M Spare: 2 Nos. 30/06/2027 Mirzapur-I-M Spare: 2 Nos. 30/12/2027 Kawai-II-M Spare: 2 Nos. 30/06/2028 Kawai-III-M Spare: 2 Nos. 30/09/2028 Mahan-III-M Spare: 2 Nos. 30/05/2028
12	W97716155741: DRG: TO SUIT ORIGINAL SUPPLY REV:00, PRESSURE GAUGE (SERVICE WATER)	10 Nos.	Raipur-II-M Spare: 2 Nos. 30/06/2027 Mirzapur-I-M Spare: 2 Nos. 30/12/2027 Kawai-II-M Spare: 2 Nos. 30/06/2028 Kawai-III-M Spare: 2 Nos. 30/09/2028 Mahan-III-M Spare: 2 Nos. 30/05/2028
13	W97716155547: LEVEL GAUGE FOR VACUUM PUMP SEPARATOR TANK SPEC: HE57016 REV: 04, SIZE: TO SUIT ORIGINAL SUPPLY ORIGINAL SUPPLY ItemId BH010	5 Nos.	Raipur-II-M Spare: 1 No. 30/06/2027 Mirzapur-I-M Spare: 1 No. 30/12/2027 Kawai-II-M Spare: 1 No. 30/06/2028 Kawai-III-M Spare: 1 No. 30/09/2028 Mahan-III-M Spare: 1 No. 30/05/2028
14	W96716155457: DIFFERENTIAL PRESSURE GAUGE FOR VACUUM PUMP PACKAGE DUPLEX FILTER SPEC: HE57016 REV: 04	5 Nos.	Raipur-II-M Spare: 1 No. 30/06/2027 Mirzapur-I-M Spare: 1 No. 30/12/2027 Kawai-II-M Spare: 1 No. 30/06/2028 Kawai-III-M Spare: 1 No. 30/09/2028 Mahan-III-M Spare: 1 No. 30/05/2028
15	W97716155849: DRG: TO SUIT ORIGINAL SUPPLY REV:00, AIR FLOW METER (ROTAMETER) FOR VACUUM PUMP SYSTEM SPEC: HE57016 REV: 04	10 Nos.	Raipur-II-M Spare: 2 Nos. 30/06/2027 Mirzapur-I-M Spare: 2 Nos. 30/12/2027 Kawai-II-M Spare: 2 Nos. 30/06/2028 Kawai-III-M Spare: 2 Nos. 30/09/2028 Mahan-III-M Spare: 2 Nos. 30/05/2028
16	W97716155679: COMPLETE SOLENOID VALVE ASSEMBLY FOR AIR CONTROL SYSTEM (PROCESS INLET) SPEC: HE57016 REV: 04	5 Nos.	Raipur-II-M Spare: 1 No. 30/06/2027 Mirzapur-I-M Spare: 1 No. 30/12/2027 Kawai-II-M Spare: 1 No. 30/06/2028 Kawai-III-M Spare: 1 No. 30/09/2028 Mahan-III-M Spare: 1 No. 30/05/2028

	PPX-BOI DEPARTMENT BHARAT HEAVY ELECTRICALS LIMITED HEEP: HARDWAR-249 403 (Uttarakhand) TEL: +91 1334 28 1707/1685/5773	BHEL Ref. No. 20243843 Item Name: Condenser Air Evacuation Package (Vacuum Pump Package) Project: 2X800 MW APL Raipur (Ph-II) 2X800 MW Mirzapur PH-I, 2X800 MW Kawai PH-II, 2X800 MW Kawai PH-III, 2X800 MW Mahan TPP (PH-III)
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Buyers Specific Additional Terms & Conditions (ATC) in addition to GTC

17	W97716155660: COMPLETE SOLENOID VALVE ASSEMBLY FOR SEAL WATER MAKE-UP SPEC: HE57016 REV: 04	5 Nos.	Raipur-II-M Spare: 1 No. 30/06/2027 Mirzapur-I-M Spare: 1 No. 30/12/2027 Kawai-II-M Spare: 1 No. 30/06/2028 Kawai-III-M Spare: 1 No. 30/09/2028 Mahan-III-M Spare: 1 No. 30/05/2028
18.	Supervision of Commissioning		
A	Lump sum per man day charges at site, including every expense at our site i.e. boarding & lodging, local travel etc. (Considering 4 working days per Vacuum Pump Package)	160 Days	
B	Lump sum per visit charges (to & fro) including travelling time & all expenses up to our project site. (Considering to & fro one visit for each unit)	10 Visits	

Note: - Type Test requirement is defined in Clause No.10 of Tender Specification HE57016 Rev No:04. Bidder must offer accordingly.

2. Project Detail:

Sl. No.	Project Name	Consignee Address
1.	2X800 MW Raipur (Ph-II)	Adani Power Limited Village: Raikheda, Block: Tilda, Raipur 493225 Chhattisgarh
2.	2X800 MW Mirzapur PH-I	Mirzapur Thermal Energy (UP) Private Limited Village: Dadri Khurd; PO: Darhi Ram Tehsil: Sadar, District: Mirzapur 231304 Uttar Pradesh
3.	2X800 MW KAWAI PH-II	Adani Power limited, Kawai, 2 x 800 MW(Phase-II) Thermal Power project, Village -Kawai, Tehsil - Atru, Baran -District, Rajasthan Pin-325219
4.	2X800 MW KAWAI PH-III	Adani Power limited, Kawai, 2 x 800 MW(Phase-III) Thermal Power project, Village - Kawai, Tehsil - Atru, Baran -District, Rajasthan PIN-325219
5.	2X800 MW Mahan TPP (PH-III)	Mahan Energen Limited 2x800 MW (Phase-III) Mahan Ultra Supercritical Thermal Power Project, Village: Bandhoura, Karsualal, Tehsil: Waidhan, District-Singrauli, Pin - 486886, Madhya Pradesh


3. EARNEST MONEY DEPOSIT (EMD):

All interested vendors must submit their e-bid along with the proof of submission of following Earnest Money Deposit (EMD) details in GeM portal along with their offer.

Details	Amount In INR	Type
EMD	INR 40,00,000/- (forty lakhs only)	Refundable

3.1: Modes of deposit: The EMD may be accepted only in the following forms:

- (i) Electronic Fund Transfer credited in BHEL account (before tender opening).

	PPX-BOI DEPARTMENT BHARAT HEAVY ELECTRICALS LIMITED HEEP: HARDWAR-249 403 (Uttarakhand) TEL: +91 1334 28 1707/1685/5773	BHEL Ref. No. 20243843 Item Name: Condenser Air Evacuation Package (Vacuum Pump Package) Project: 2X800 MW APL Raipur (Ph-II) 2X800 MW Mirzapur PH-I, 2X800 MW Kawai PH-II, 2X800 MW Kawai PH-III, 2X800 MW Mahan TPP (PH-III)
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Buyers Specific Additional Terms & Conditions (ATC) in addition to GTC

- (ii) Banker's cheque/ Pay order/ Demand draft, in favour of BHEL (along with offer).
- (iii) Fixed Deposit Receipt (FDR).
- (iv) Bank Guarantee from any of the Scheduled Banks.
- (v) Insurance Surety Bonds.
- (vi) The EMD shall remain valid for a period of 45 (forty-five) days beyond the final bid validity period as asked in NIT.


For E-Payment, the RTGS details are as mentioned below:

Bank Details	SWIFT Details of bank	Contact Details of Banker
STATE BANK OF INDIA RANIPUR BRANCH, OPP: BHEL MAIN GATE, SECTOR-5, RANIPUR, HARIDWAR, UTTARAKHAND, INDIA PIN CODE: 249403	SWIFT NO : SBININBB225 CC ACCOUNT NO : 10667995458 IFSC CODE : SBIN0000586	Contact No.: +91 1334 224201 +91 1334 226125 Fax: +91 1334 226512

3.2: Exemption of EMD

As per GeM GTC following are the exempted category of EMD/Bid Security.

- a. Micro and Small Enterprises (MSEs) who are holding valid Udyam Registration and are manufacturer of the offered Productor Service (Primary Product / Service - in case of bunch bid with total value wise evaluation) and give specific confirmation to this effect at the time of bid submission and claim EMD exemption and whose credentials are validated online through Udyam Registration website of Ministry of MSME and also through supporting document uploaded during bidding process and validated by the Buyer. State Government Buyers may, however, choose to exempt only MSEs from the State of Bid Inviting Authority by specifying the same in ATC of the Bid. In case no such ATC is included, eligible MSEs of all states are exempted.
- b. Start-ups as recognized by Department for Promotion of Industry and Internal Trade (DPIIT), holding valid Start-up Recognition Certificate which is to be uploaded while bidding and claiming EMD exemption and to be validated by the Buyer. Bidder to ensure that turnover for any of the financial years has not exceeded beyond limits prescribed in the certificate / Start Up scheme of DPIIT.
- c. KVIC, ACASH, WDO, Coir Board, TRIFED and Kendriya Bhandar.
- d. Sellers who have got their credentials verified through the process of Vendor Assessment by Vendor Assessment Agencies for the Primary Product / Primary Service for which Bid / RA has been invited and holding valid Vendor Assessment or Vendor Assessment Exemption Report / confirmation (Seller to upload VA report / VAE confirmation to be validated by the Buyer).
- e. Sellers / Service Provider having annual turnover of INR 500 Crore or more, at least in one of the past three completed financial year(s).
- f. Sellers / Service Providers holding valid BIS License for the Primary Product Category whose credentials are validated through BIS database and through uploaded supporting documents to be validated by the buyer.
- g. Central / State PSUs.

	PPX-BOI DEPARTMENT BHARAT HEAVY ELECTRICALS LIMITED HEEP: HARDWAR-249 403 (Uttarakhand) TEL: +91 1334 28 1707/1685/5773	BHEL Ref. No. 20243843 Item Name: Condenser Air Evacuation Package (Vacuum Pump Package) Project: 2X800 MW APL Raipur (Ph-II) 2X800 MW Mirzapur PH-I, 2X800 MW Kawai PH-II, 2X800 MW Kawai PH-III, 2X800 MW Mahan TPP (PH-III)
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Buyers Specific Additional Terms & Conditions (ATC) in addition to GTC

- h. In addition to above GeM conditions, offers directly from the manufacturer or their authorized agents are also exempted from submission of EMD.

3.3: Forfeiture of EMD:

- a. A bidder's EMD will be forfeited if the bidder withdraws or amends its/his tender or impairs or derogates from the tender in any respect within the period of validity of the tender or if the successful bidder fails to furnish the required performance security within the specified period mentioned in the Tender.
- b. EMD by the tenderer to be withheld in case any action on the bidder is envisaged under the provisions of extant "Guidelines on Suspension of business dealings with suppliers/ contractors" and forfeited/ released based on the action as determined under these guidelines.
- c. Bid securities of the unsuccessful bidders shall be returned to them after expiry of the final bid validity period / latest by the 30th day after the award of the contract. Since it is a two-part bidding, bid securities of unsuccessful bidders during first stage i.e. technical evaluation shall be returned within 30 days of declaration of result of first stage i.e. technical evaluation.
- d. Bid security/EMD of the successful bidder shall be returned only on conclusion of the order and receipt of a Performance Security/Performance Bank Guarantee of 5% of contract value (excluding taxes) from contractor / Supplier.
- e. EMD/PBG/PS shall not carry any interest.


4. PERFORMANCE SECURITY/PERFORMANCE BANK GUARANTEE:

Successful bidder to submit Performance Security/Performance Bank Guarantee of 5% of the contract Value (Excluding Taxes). The Performance Security/PBG shall be submitted within 30 days of notification of the award of Contract and it should remain valid for a period of 60 (sixty) days beyond the date of completion of all contractual obligations of the supplier, including warranty obligations.

PS/PBG shall be returned to the contractor without interest, after the contractor duly performs and completes the contract in all respects but not later than 60 (sixty) days of completion of all such obligations including the warranty under the contract. The Performance Security/PBG shall not carry any interest.

- a. **Modes of deposit of PS/ PBG:** Performance Security/Performance Bank Guarantee shall be furnished in the following forms:

- I. Local cheques of Scheduled Banks (subject to realization)/ Pay Order/Demand Draft/ Electronic Fund Transfer in favour of BHEL.
- II. Bank Guarantee from Scheduled Banks / Public Financial Institutions as defined in the Companies Act. The Bank Guarantee format should have the approval of BHEL.
- III. Fixed Deposit Receipt issued by Scheduled Banks / Public Financial Institutions as defined in the Companies Act (FDR should be in the name of the Contractor, a/c BHEL).

	PPX-BOI DEPARTMENT BHARAT HEAVY ELECTRICALS LIMITED HEEP: HARDWAR-249 403 (Uttarakhand) TEL: +91 1334 28 1707/1685/5773	BHEL Ref. No. 20243843 Item Name: Condenser Air Evacuation Package (Vacuum Pump Package) Project: 2X800 MW APL Raipur (Ph-II) 2X800 MW Mirzapur PH-I, 2X800 MW Kawai PH-II, 2X800 MW Kawai PH-III, 2X800 MW Mahan TPP (PH-III)
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Buyers Specific Additional Terms & Conditions (ATC) in addition to GTC

- IV. Securities available from Indian Post offices such as National Savings Certificates, Kisan Vikas Patras etc. (held in the name of Contractor furnishing the security and duly endorsed/ hypothecated/ pledged, as applicable, in favour of BHEL).
- V. Insurance Surety Bond.


(Note: BHEL will not be liable or responsible in any manner for the collection of interest or renewal of the documents or in any other matter connected therewith)

4.2: Forfeiture of Performance Security/Performance Bank Guarantee:

The Performance Security/ Performance Bank Guarantee will be forfeited and credited to BHEL's account in the event of a breach of contract by the supplier.


A. Buyers Specific Additional Terms & Conditions in addition to GTC

Sl. No.	TERMS	Description	Supplier confirmation
1.	PRE-QUALIFICATION REQUIREMENTS:	The Pre-Qualification Requirements have been compiled. All the bidders should ensure submission of complete details and documents as called for in these requirements. The Offers submitted by the bidders would be scrutinized with respect to Pre-Qualification Requirements first. Techno-Commercial offer of only those bidders shall be evaluated who meet the Pre-Qualification Requirements.	
2.	DOCUMENTS CHECKLIST:	Please submit signed and stamped copy of your offer on each page along with following documents on GeM portal: <ul style="list-style-type: none"> • Buyer Specific Additional Terms & Conditions. • Technical offer along with PQR & its supportive document. • Technical Drawing, Documents & Purchase specification. • Signed & stamped copy of Quality plan. • Certificate/self-certification for minimum local content as per PPP-MII order-2017. • MSE/MSME latest certificate (if any). 	

	PPX-BOI DEPARTMENT BHARAT HEAVY ELECTRICALS LIMITED HEEP: HARDWAR-249 403 (Uttarakhand) TEL: +91 1334 28 1707/1685/5773	BHEL Ref. No. 20243843 Item Name: Condenser Air Evacuation Package (Vacuum Pump Package) Project: 2X800 MW APL Raipur (Ph-II) 2X800 MW Mirzapur PH-I, 2X800 MW Kawai PH-II, 2X800 MW Kawai PH-III, 2X800 MW Mahan TPP (PH-III)
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Buyers Specific Additional Terms & Conditions (ATC) in addition to GTC

3.	CUSTOMER APPROVAL CONDITION:	<p>Please note that procurement shall be done only from the vendors approved by end customer. Bidders are required to submit following documents along with their offer. BHEL will propose name of PQR qualified bidder (Along with the documents submitted by the bidders) to end customer for their approval.</p> <ul style="list-style-type: none"> a. Complete Supply Experience Including Experience with BHEL (if available) b. Details of Manufacturing and testing facilities. c. ISO Certificate like ISO 9001:2015 etc. if available. d. Company Profile e. Audited Balance Sheet for last three Financial Years f. Any other supporting document to Bidder's presentation against customer. <p>BHEL will propose name of PQR qualified vendors along with credentials to end customer for their approval, however, approval of vendors is sole discretion of end customer.</p> <p>Offer of only those bidders shall be considered for opening of price bid (part-II) whose customer approval will be available at the time of price bid opening.</p>	
4.	COMPLIANCE TO GEM GTC:	In addition to the Terms & Conditions mentioned in below table, General Terms and Conditions on GeM shall be applicable for this NIT.	
5.	MAKE IN INDIA COMPLIANCE:	<p>"For this procurement, the local content to categorize a supplier as a Class I local supplier/ Class II local Supplier/ Non-local supplier and purchase preference to Class I local supplier, is as defined in Public Procurement (Preference to Make in India), Order 2017 dated 19.07.2024 issued by DPIIT. In case of subsequent orders issued by the nodal ministry, changing the definition of local content for the items of the NIT, the same shall be applicable even if issued after issue of this NIT, but before opening of Part-II bids against this NIT".</p> <p>For this eligibility criteria, bidders are required to submit certificate of Minimum local content as specified in the Annexure-B of the tender. The Certificate shall be from the statutory auditor or cost auditor of the company.</p>	
6.	COMPLIANCE OF RULE 144 (XI) OF GFR 2017:	Compliance of Restrictions under Rule 144 (xi) of GFR 2017 shall be as per GeM.	
7.	BID VALIDITY/ VALIDITY OF OFFER:	<p>Please note that validity of the offer shall be 180 days from the date opening of Techno-Commercial bid (Part-I bid) on GeM portal.</p> <p>Offer of bidder's having validity less than 180 days shall liable to reject.</p> <p>The required validity is considering that offer is complete & clear w.r.t. PQR and all techno-commercial conditions. Vendors need to extend their offer validity for the time taken by them in responding BHEL's comments/clarification sought during techno-commercial scrutiny of the offer. In case regret by any bidder for such validity extension, their offer shall liable to be reject.</p>	

	PPX-BOI DEPARTMENT BHARAT HEAVY ELECTRICALS LIMITED HEEP: HARDWAR-249 403 (Uttarakhand) TEL: +91 1334 28 1707/1685/5773	BHEL Ref. No. 20243843 Item Name: Condenser Air Evacuation Package (Vacuum Pump Package) Project: 2X800 MW APL Raipur (Ph-II) 2X800 MW Mirzapur PH-I, 2X800 MW Kawai PH-II, 2X800 MW Kawai PH-III, 2X800 MW Mahan TPP (PH-III)
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Buyers Specific Additional Terms & Conditions (ATC) in addition to GTC

8.	PRICES/BASIS OF QUOTATION:	Prices: The offered prices of the items shall remain firm and fixed at any point of time and shall be indicated in INR for each accounting unit.									
		Ensure to quote your price inclusive of Freight & GST for Total quantity on GeM portal.									
		Transit Insurance would be arranged by BHEL. Please quote your prices accordingly.									
		Vendor's scope will not cover Unloading at Final destination of delivery. Unloading at final destination (i.e. BHEL site respective project site) is in BHEL scope. Loading and unloading at other intermediate places due to any permitted transshipment (if any) will be the responsibility of the vendor.									
		The prices are to be quoted on Ex-Works with freight Pre-paid up to project destination basis & inclusive of all taxes & duties, GST (i.e. Inclusive all). Bidders can dispatch goods through any Indian Bank Association approved transporters having their branch at HARIDWAR / destination. If material is dispatched through other than Indian Bank Association approved transporter, material to be delivered on door delivery basis. In case of dispatch of material through any other unapproved transporter, payment shall be made only after receipt of material and any additional charges payable to the transporter shall be to the bidder's account. Any demurrage / godown rent payable to the transporter /or to godown's owner due to any delay attributed by the supplier shall be recovered from supplier's account.									
9.	GEM CHARGES:	GeM charges if any shall be either side only i.e. buyer's GeM charges shall be in buyer's account and seller's GeM charges shall be on seller's account.									
10.	CONTRACT EXECUTION:	Bidder's are advised to read GeM related query & clarification carefully on GeM portal. Order shall be executed through GeM.									
11.	EVALUATION CRITERIA:	Evaluation will be done on the basis of total landed cost to BHEL up to Project site for all items & quantity of enquiry taken together.									
12.	EVALUATION CURRENCY:	The evaluation currency for this tender shall be INR.									
13.	PAYMENT TERMS SUPPLY PORTION:	The payment shall be done after receipt of Material at BHEL respective project site, within no. of days as defined in the below table from the date of receipt of Material at site i.e. MRC date).									
		<table><tr><td>Type of Bidder</td><td>Payment Terms (Number of Days from Material receipt at site)</td></tr><tr><td>Micro & Small Enterprises (MSEs)</td><td>45 days</td></tr><tr><td>Medium Enterprises</td><td>60 days</td></tr><tr><td>Non MSME</td><td>90 days</td></tr></table>		Type of Bidder	Payment Terms (Number of Days from Material receipt at site)	Micro & Small Enterprises (MSEs)	45 days	Medium Enterprises	60 days	Non MSME	90 days
		Type of Bidder		Payment Terms (Number of Days from Material receipt at site)							
		Micro & Small Enterprises (MSEs)		45 days							
		Medium Enterprises		60 days							
Non MSME	90 days										
14.	SUPERVISION OF COMMISSIONING:	Please note that vendor's competent representative is required for Supervision of erection & commissioning of the equipment at our project site. Please confirm to quote your charges for Supervision of Erection &									

	PPX-BOI DEPARTMENT BHARAT HEAVY ELECTRICALS LIMITED HEEP: HARDWAR-249 403 (Uttarakhand) TEL: +91 1334 28 1707/1685/5773	BHEL Ref. No. 20243843 Item Name: Condenser Air Evacuation Package (Vacuum Pump Package) Project: 2X800 MW APL Raipur (Ph-II) 2X800 MW Mirzapur PH-I, 2X800 MW Kawai PH-II, 2X800 MW Kawai PH-III, 2X800 MW Mahan TPP (PH-III)
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Buyers Specific Additional Terms & Conditions (ATC) in addition to GTC

		<p>Commissioning under following heads:</p> <ul style="list-style-type: none"> Supervision Charges per day including local conveyance, boarding & lodging charges (Lump Sum per day charges). To & from travelling charges per visit (Lump Sum, including every expense of travel like VISA, Air Fare etc.). <p>Please note that for evaluation purpose charges for 4 days, per Condenser Air Evacuation Package at site and 1 visit for 1 project unit shall be considered.</p>	
		<p>Payment of supervision shall be against submission of successful commissioning certificate, time sheet duly signed stamped by BHEL site and invoice to BHEL.</p>	
		<p>Quoted price for supervision should be inclusive of inclusive all i.e TDS/Taxes/Duties etc. as applicable</p>	
		<p>Please confirm to depute your representative to our site within 15 days form the intimation from BHEL.</p>	
		<p>Please inform your PAN No if available and provide a copy of PAN Card along with invoice.</p>	
15.	DELIVERY PERIOD:	<p>Please note BHEL Delivery requirements mentioned above at Sl. No.1 of ATC. Early delivery w.r.t. above lot delivery will be accepted only after written confirmation from BHEL. BHEL reserve right to reject early delivery request of bidders / suppliers.</p> <p>Delivery period indicated in GeM bid is only indicative and final delivery of tender shall be taken as mentioned above.</p> <p>Accordingly, bidders to confirm the above deliveries or quote their best possible delivery in no of months / weeks from the date of placement of Purchase order, including all activities like document approval, inspection by TPI time etc.</p>	
16.	TECHNICAL DOCUMENT/ DRAWING APPROVAL CONDITIONS:	<p>Drawings/Data sheets/documents/QAP etc. as called for in the specifications shall be submitted by Vendor for BHEL/ Customer approval within 30 days of purchase order. BHEL shall approve these drawings/data sheets/ documents / QAP etc. within 30 days of receipt.</p> <p>Any comments on the documents shall be given by BHEL within 7 days of submission and vendor shall submit revised document / reply to comments, within 7 days of BHEL comments. However, total time for Document approval submission and approval shall not exceed 30 days for respective party.</p> <p>Delivery is from the date of PO, accordingly, delay in submission / revision of the documents by the vendor will automatically account for to vendor. In case of delay on account of BHEL in comments / approval of the documents, the delivery shall be re-scheduled by the no of days taken by BHEL in excess to 30 days. For delay analysis cumulative no of days (including time taken in comments), shall be considered for delivery extension.</p>	
17.	LIQUIDATED DAMAGES (LD) FOR LATE DELIVERY:	<p>If the Seller/Service Provider fails to deliver any or all of the Goods/Services within the original/re-fixed delivery period(s) specified in the contract, the Buyer will be entitled to deduct/recover the Liquidated Damages for the delay, unless covered under Force Majeure conditions aforesaid, @ 0.5% of the contract value of delayed quantity per week or part of the week of</p>	

	PPX-BOI DEPARTMENT BHARAT HEAVY ELECTRICALS LIMITED HEEP: HARDWAR-249 403 (Uttarakhand) TEL: +91 1334 28 1707/1685/5773	BHEL Ref. No. 20243843 Item Name: Condenser Air Evacuation Package (Vacuum Pump Package) Project: 2X800 MW APL Raipur (Ph-II) 2X800 MW Mirzapur PH-I, 2X800 MW Kawai PH-II, 2X800 MW Kawai PH-III, 2X800 MW Mahan TPP (PH-III)
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Buyers Specific Additional Terms & Conditions (ATC) in addition to GTC

		delayed period as pre-estimated damages not exceeding 10% of the contract value of delayed quantity without any controversy/dispute of any sort whatsoever.													
		The date of LR/RR/GR would be treated as the date of delivery for LD purposes.													
18.	MDCC CLAUSE:	<p>Please note that, material shall be dispatched only after issue of Material dispatch Clearance Certificate (MDCC) from end customer. For issue of MDCC, vendors are required to submit all test certificates (TC) and inspection report of third party (IR) to BHEL as applicable. After review & acceptance of the Quality document, BHEL will forward the same to end customer for issuance of MDCC.</p> <p>MDCC shall be issued within 7 days of receipt of complete quality documents / TCs. In case of delay in issuance of MDCC, only delivery shall be extended by no of days taken by BHEL in excess to 7 days and all other terms and conditions of PO shall remain same & binding.</p> <p>In case any material is dispatched without MDCC and any loss is incurred by Supplier/Vendor for any reason whatsoever, BHEL shall not be responsible in any manner to compensate the supplier in this regard.</p>													
19.	INTEGRITY PACT:	<p>(a) IP is a tool to ensure that activities and transactions between the Company and its Bidders/ Contractors are handled in a fair, transparent and corruption free manner. Following Independent External Monitors (IEMs) on the present panel have been appointed by BHEL with the approval of CVC to oversee implementation of IP in BHEL.</p> <table><tr><th>SI</th><th>IEM</th><th>Email</th></tr><tr><td>1.</td><td>Shri Otem Dai, IAS (Retd.)</td><td>iem1@bhel.in</td></tr><tr><td>2.</td><td>Shri Bishwamitra Pandey, IRAS (Retd.)</td><td>iem2@bhel.in</td></tr><tr><td>3.</td><td>Shri Mukesh Mittal, IRS (Retd.)</td><td>iem3@bhel.in</td></tr></table> <p>(b) The IP as enclosed with the tender is to be submitted (duly signed by authorized signatory) along with techno-commercial bid (Part-I, in case of two/ three-part bid). Only those bidders who have entered into such an IP with BHEL would be competent to participate in the bidding. In other words, entering into this Pact would be a preliminary qualification.</p> <p>(c) Please refer Section-8 of IP for Role and Responsibilities of IEMs. In case of any complaint arising out of the tendering process, the matter may be referred to any of the above IEM(s). All correspondence with the IEMs shall be done through email only.</p>	SI	IEM	Email	1.	Shri Otem Dai, IAS (Retd.)	iem1@bhel.in	2.	Shri Bishwamitra Pandey, IRAS (Retd.)	iem2@bhel.in	3.	Shri Mukesh Mittal, IRS (Retd.)	iem3@bhel.in	
SI	IEM	Email													
1.	Shri Otem Dai, IAS (Retd.)	iem1@bhel.in													
2.	Shri Bishwamitra Pandey, IRAS (Retd.)	iem2@bhel.in													
3.	Shri Mukesh Mittal, IRS (Retd.)	iem3@bhel.in													
		<p>Note: <i>No routine correspondence shall be addressed to the IEM (phone/ post/ email) regarding the clarifications, time extensions or any other administrative queries, etc. on the tender issued. All such clarification/ issues shall be addressed directly to the tender issuing (procurement) department's officials whose contact details are provided below:</i></p>													

	PPX-BOI DEPARTMENT BHARAT HEAVY ELECTRICALS LIMITED HEEP: HARDWAR-249 403 (Uttarakhand) TEL: +91 1334 28 1707/1685/5773	BHEL Ref. No. 20243843 Item Name: Condenser Air Evacuation Package (Vacuum Pump Package) Project: 2X800 MW APL Raipur (Ph-II) 2X800 MW Mirzapur PH-I, 2X800 MW Kawai PH-II, 2X800 MW Kawai PH-III, 2X800 MW Mahan TPP (PH-III)
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Buyers Specific Additional Terms & Conditions (ATC) in addition to GTC

		Mr. Govind Singh Rawat Designation: Engineer (PPX-BOI) 4 th Floor, Main Administrative Building, HEEP, BHEL, Hardwar- 249403 Uttarakhand, India Email ID: gswat@bhel.in Tel: +91 1334 28 1707	Mr. Manoj Kumar Designation: Sr. Manager (PPX-BOI) 4 th Floor, Main Administrative Building, HEEP, BHEL Hardwar- 249403 Uttarakhand, India Email ID: manojy@bhel.in Tel: +91 1334 28 5773	
20.	BREACH OF CONTRACT, REMEDIES AND TERMINATION:	<p>The following shall amount to breach of contract:</p> <p>I. Non-supply of material/ non-completion of work by the Supplier/Vendor within scheduled delivery/ completion period as per contract or as extended from time to time.</p> <p>II. The Supplier/Vendor fails to perform as per the activity schedule and there are sufficient reasons even before expiry of the delivery/ completion period to justify that supplies shall be inordinately delayed beyond contractual delivery/ completion period.</p> <p>III. The Supplier/Vendor delivers equipment/ material not of the contracted quality.</p> <p>IV. The Supplier/Vendor fails to replace the defective equipment/ material/ component as per guarantee clause.</p> <p>V. Withdrawal from or abandonment of the work by the Supplier/Vendor before completion as per contract.</p> <p>VI. Assignment, transfer, subletting of Contract by the Supplier/Vendor without BHEL's written permission resulting in termination of Contract or part thereof by BHEL.</p> <p>VII. Non-compliance to any contractual condition or any other default attributable to Supplier/Vendor.</p> <p>VIII. Any other reason(s) attributable to Vendor towards failure of performance of contract. In case of breach of contract, BHEL shall have the right to terminate the Purchase Order/ Contract either in whole or in part thereof without any compensation to the Supplier/Vendor.</p> <p>IX. Any of the declarations furnished by the contractor at the time of bidding and/ or entering into the contract for supply are found untruthful and such declarations were of a nature that could have resulted in non-award of contract to the contractor or could expose BHEL and/ or Owner to adverse consequences, financial or otherwise.</p> <p>X. Supplier/Vendor is convicted of any offence involving corrupt business practices, antinational activities or any such offence that compromises the business ethics of BHEL, in violation of the Integrity Pact entered into with BHEL has the potential to harm the overall business of BHEL/ Owner.</p> <p>Note-Once BHEL considers that a breach of contract has occurred on the part of Supplier/Vendor, BHEL shall notify the Supplier/Vendor by way of notice in this regard. Contractor shall be given an opportunity to rectify the reasons causing the breach of contract within a period of 14 days</p>		

	PPX-BOI DEPARTMENT BHARAT HEAVY ELECTRICALS LIMITED HEEP: HARDWAR-249 403 (Uttarakhand) TEL: +91 1334 28 1707/1685/5773	BHEL Ref. No. 20243843 Item Name: Condenser Air Evacuation Package (Vacuum Pump Package) Project: 2X800 MW APL Raipur (Ph-II) 2X800 MW Mirzapur PH-I, 2X800 MW Kawai PH-II, 2X800 MW Kawai PH-III, 2X800 MW Mahan TPP (PH-III)
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		<p>In case the contractor fails to remedy the breach, as mentioned in the notice, to the satisfaction of BHEL, BHEL shall have the right to take recourse to any of the remedial actions available to it under the relevant provisions of contract.</p> <p>Remedies in case of Breach of Contract:</p> <p>i) Wherein the period as stipulated in the notice issued under above clause has expired and Supplier/Vendor has failed to remedy the breach, BHEL will have the right to terminate the contract on the ground of "Breach of Contract" without any further notice to contractor.</p> <p>ii) Upon termination of contract, BHEL shall be entitled to recover an amount equivalent to 10% of the Contract Value for the damages on account of breach of contract committed by the Supplier/Vendor. This amount shall be recovered by way of encashing the security instruments like performance bank guarantee etc available with BHEL against the said contract. In case the value of the security instruments available is less than 10% of the contract value, the balance amount shall be recovered from other financial remedies (i.e. available bills of the Supplier/Vendor, retention amount, from the money due to the Supplier/Vendor etc. with BHEL) or the other legal remedies shall be pursued.</p> <p>iii) wherever the value of security instruments like performance bank guarantee available with BHEL against the said contract is 10% of the contract value or more, such security instruments to the extent of 10% contract value will be encashed. In case no security instruments are available or the value of the security instruments available is less than 10% of the contract value, the 10% of the contract value or the balance amount, as the case may be, will be recovered in all or any of the following manners:</p> <p>iv) In case the amount recovered under sub clause above is not sufficient to fulfil the amount recoverable then; a demand notice to deposit the balance amount within 30 days shall be issued to Supplier/Vendor.</p> <p>v) If Supplier/Vendor fails to deposit the balance amount within the period as prescribed in demand notice, following action shall be taken for recovery of the balance amount:</p> <p>a) From dues available in the form of Bills payable to defaulted Supplier/Vendor against the same contract.</p> <p>b) If it is not possible to recover the dues available from the same contract or dues are insufficient to meet the recoverable amount, balance amount shall be recovered from any money(s) payable to Supplier/Vendor under any contract with other Units of BHEL including recovery from security deposits or any other deposit available in the form of security instruments of any kind against Security deposit or EMD.</p> <p>vi) In-case recoveries are not possible with any of the above available options, Legal action shall be initiated for recovery against defaulted supplier/Vendor.</p> <p>vii) It is an agreed term of contract that this amount shall be a genuine pre-estimate of damages that BHEL would incur in completion of balance</p>	
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		<p>contractual obligation of the contract through any other agency and BHEL will not be required to furnish any other evidence to the Supplier/Vendor for the purpose of estimation of damages.</p> <p>viii) In addition to the above, imposition of liquidated damages, debarment, termination, de-scoping, short-closure, etc., shall be applied as per provisions of the contract.</p> <p>Note:</p> <p>1) The defaulting Supplier/Vendor shall not be eligible for participation in any of the future enquiries floated by BHEL to complete the balance work. The defaulting contractor shall mean and include:</p> <p>(a) In case defaulted Supplier/Vendor is the Sole Proprietorship Firm, any Sole Proprietorship Firm owned by same Sole Proprietor.</p> <p>(b) In case defaulted Supplier/Vendor is The Partnership Firm, any firm comprising of same partners/ some of the same partners; or sole proprietorship firm owned by any partner(s) as a sole proprietor.</p>	
21.	SUSPENSION OF BUSINESS DEALINGS WITH SUPPLIERS/ CONTRACTORS:	<p>The offers of the bidders who are under suspension as also the offers of the bidders, who engage the services of the banned firms / principal / agents, shall be rejected. The list of banned firms is available on BHEL web site www.bhel.com.</p> <p>If any bidder / supplier / contractor during pre-tendering / tendering / post tendering / award / execution / post-execution stage indulges in any act, including but not limited to, mal-practices, cheating, bribery, fraud or and other misconduct or formation of cartel so as to influence the bidding process or influence the price or tampers the tendering process or acts or omits in any manner which tantamount to an offence punishable under any provision of the Indian Penal Code, 1860(Bhartiya Nyaya Samhita 2023) or any other law in force in India, or does anything which is actionable under the Guidelines for Suspension of Business dealings, action may be taken against such bidder / supplier / contractor as per extant guidelines of the company available on www.bhel.com and / or under applicable legal provisions. Guidelines for suspension of business dealings is available in the webpage: http://www.bhel.com/vendor_registration/vendor.php.</p>	
22.	SETTLEMENT OF DISPUTE, CONCILIATION & ARBITRATION:	<p>SETTLEMENT OF DISPUTE:</p> <p>If any dispute or difference of any kind whatsoever shall arise between BHEL and the Supplier/Vendor, arising out of the contract for the performance of the work whether during the progress of contract termination, abandonment or breach of the contract, it shall in the first place referred to Designated Officer / IEM for amicable resolution by the parties. Designated Officer / IEM who within 60 days after being requested shall give written notice of his decision to the contractor. Save as hereinafter provided, such decision in respect of every matter so referred shall forthwith be given effect to by the Supplier/Vendor who shall proceed with the work with all due diligence, whether he or BHEL desires to resolve the dispute as hereinafter provided or not. If after the Designated Engineer has given written notice of this decision to the party and no intention to pursue the dispute has been communicated to him by the affected party within 30 days from the receipt of such notice,</p>	

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Buyers Specific Additional Terms & Conditions (ATC) in addition to GTC

	<p>the said decision shall become final and binding on the parties. In the event the Supplier/Vendor being dissatisfied with any such decision or if amicable settlement cannot be reached then all such disputed issues shall be resolved through conciliation in terms of the BHEL Conciliation Scheme 2018 as per 'CONCILIATION' Clause.</p> <p>CONCILIATION: Any dispute, difference or controversy of whatever nature howsoever arising under or out of or in relation to this Agreement (including its interpretation) between the Parties, and so notified in writing by either Party to the other Party (the "Dispute") shall, in the first instance, be attempted to be resolved amicably in accordance with the conciliation procedure as per BHEL Conciliation Scheme 2018. The proceedings of Conciliation shall broadly be governed by Part-III of the Arbitration and Conciliation Act 1996 or any statutory modification thereof and as provided in - "Procedure for conduct of conciliation proceedings" (as available in www.bhel.com).</p> <p>ARBITRATION: Except as provided elsewhere in this Contract, in case Parties are unable to reach amicable settlement (whether by Conciliation to be conducted as provided herein above or otherwise) in respect of any dispute or difference; arising out of the formation, breach, termination, validity or execution of the Contract; or, the respective rights and liabilities of the Parties; or, in relation to interpretation of any provision of the Contract; or, in any manner touching upon the Contract (hereinafter referred to as the 'Dispute'), then, either Party may, refer the disputes to Arbitral Institution and such dispute to be adjudicated by Sole Arbitrator appointed in accordance with the Rules of said Arbitral Institution.</p> <p>A party willing to commence arbitration proceeding shall invoke Arbitration Clause by giving notice to the other party in terms of section 21 of the Arbitration & Conciliation Act, 1996 (hereinafter referred to as the 'Notice') before referring the matter to arbitral institution. The Notice shall be addressed to the Head of the Region, Power Sector/ Unit, BHEL, executing the Contract and shall contain the particulars of all claims to be referred to arbitration with sufficient detail and shall also indicate the monetary amount of such claim including interest, if any.</p> <p>After expiry of 30 days from the date of receipt of aforesaid notice, the party invoking the Arbitration shall submit that dispute to the Arbitral Institutions (shall be identified by the contract issuing agency) and that dispute shall be adjudicated in accordance with their respective Arbitration Rules. The matter shall be adjudicated by a Sole Arbitrator who shall necessarily be a Retd Judge having considerable experience in commercial matters to be appointed/nominated by the respective institution. The cost/expenses pertaining to the said Arbitration shall also be governed in accordance with the Rules of the respective Arbitral Institution. The decision of the party invoking the Arbitration for reference of dispute to a specific Arbitral</p>	
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		<p>institution for adjudication of that dispute shall be final and binding on both the parties and shall not be subject to any change thereafter. The institution once selected at the time of invocation of dispute shall remain unchanged.</p> <p>The fee and expenses shall be borne by the parties as per the Arbitral Institutional rules.</p> <p>The Arbitration proceedings shall be in English language and the seat and venue of Arbitration shall be at the court(s) of Haridwar.</p> <p>Subject to the above, the provisions of Arbitration & Conciliation Act 1996 and any amendment thereof shall be applicable. All matters relating to this Contract and arising out of invocation of Arbitration clause are subject to the exclusive jurisdiction of the Court(s) situated at Haridwar, shall have exclusive jurisdiction.</p> <p>Notwithstanding any reference to the Designated Engineer or Conciliation or Arbitration herein, a. the parties shall continue to perform their respective obligations under the Contract unless they otherwise agree. Settlement of Dispute clause cannot be invoked by the Contractor, if the Contract has been mutually closed or 'No Demand Certificate' has been furnished by the Contractor or any Settlement Agreement has been signed between the Employer and the Contractor.</p> <p>It is agreed that Mechanism of resolution of disputes through arbitration shall be available only in the cases where the value of the dispute is less than Rs. 10 Crores.</p> <p>In case the disputed amount Claim, Counter claim including interest is Rs. 10 crores and above, the parties shall be within their rights to take recourse to remedies other than Arbitration, as may be available to them under the applicable laws after prior intimation to the other party. Subject to the aforesaid conditions, provisions of the Arbitration and Conciliation Act, 1996 and any statutory modifications or re-enactment thereof as amended from time to time, shall apply to the arbitration proceedings under this clause.</p> <p>In case, multiple arbitrations are invoked (whether sub-judice or arbitral award passed) by any party to under this contract, then the cumulative value of claims (including interest claimed or awarded) in all such arbitrations shall be taken in account while arriving at the total claim in dispute for the subject contract for the purpose of clause mentioned above. Disputes having cumulative value of less than 10 crores shall be resolved through arbitration and any additional dispute shall be adjudicated by the court of competent jurisdiction.</p>	
23.	GUARANTEE PERIOD:	<p>Guarantee should be 36 months from the date of dispatch or 24 months from the date of commissioning whichever is earlier.</p> <p>Deviation in guarantee/Warranty parameter is not acceptable & BHEL reserve the rights to reject the offer of bidder/s offering deviation in Guarantee clause.</p>	

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24.	SITE SUPPORT AFTER EXPIRY OF GUARANTEE PERIOD:	To resolve the vacuum pump related issue, vendor to visit site two times in two years after expiry of Guarantee period, without any charges to BHEL. Each visit shall be of two days.	
25.	VARIFICATION OF MATERIAL AT SITE:	BHEL will inform receipt of material at site. After receipt of material, supplier's representative has to visit at site to verify completeness of the equipment w.r.t. detailed packing list, within a week time from the date of intimation from BHEL. After verification of Material, MOM with BHEL's site would be provided to BHEL- Haridwar. This visit would be without any cost to BHEL.	
26.	PACKING INSTRUCTIONS:	Main condenser Air Evacuation package and all other items covered in NIT should be packed in separate boxes for each unit.	
		Each item in the box of spares items must be tagged with the same description as per PO description.	
		Detail of each spare should be mentioned in the packing list.	
27.	OPERATION & MAINTENANCE MANUAL:	Supplier shall furnish 20 copies & 3 CD ROMs of approved O&M manuals of each project. Supplier to put 2 nos. of O&M manuals (hard copy) in the packing box and description of same should be appear on the shipping / packing list. 18 Nos of O&M manuals & 3 CD ROMS should be sent to AGM (PPX-BOI) at BHEL—HEEP Haridwar, immediately after dispatch.	
28.	PERFORMANCE SECURITY/ PERFORMANCE BANK GUARANTEE:	Successful bidder to submit Performance Security/Performance Bank Guarantee of 5% of the contract Value (Excluding Taxes). The Performance Security/PBG shall be submitted within 30 days of notification of the award of Contract and it should remain valid for a period of 60 (sixty) days beyond the date of completion of all contractual obligations of the supplier, including Guarantee/warranty obligations. PS/PBG shall be returned to the contractor without interest, after the contractor duly performs and completes the contract in all respects but not later than 60 (sixty) days of completion of all such obligations including the Guarantee/ Warranty under the contract. The Performance Security/PBG shall not carry any interest.	
29.	TYPE TEST	Type Test requirement is defined in Clause No.10 of Tender Specification HE57016 Rev No:04. Bidder must offer accordingly.	
30.	QUALITY REQUIREMENTS:	CONFIRM AND SUBMIT ENDORSED COPY OF CUSTOMER APPROVED QUALITY PLAN NO. QA/BI/QP/006, REV06 (FOR VACUUM PUMP) & ADANI/QA/SQP/E/002, REV02 (FOR MOTOR).	
		CONFIRM THAT INSPECTION SHALL BE DONE BY BHEL NOMINATED INSPECTION AGENCY M/s QUEST AND END CUSTOMER AS PER CUSTOMER APPROVED QUALITY PLAN.	

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		<p>FOR SPARES:</p> <ul style="list-style-type: none"> VENDOR TO CONFIRM THAT TESTING/WITNESSING/CERTIFICATION WILL BE DONE AS PER APPROVED QUALITY PLAN OF MAIN ITEM. VENDOR TO CONFIRM THAT IF ITEM DOES NOT APPEAR IN APPROVED QUALITY PLAN THEN CERTIFICATE OF COMPLIANCE WILL BE PROVIDED. VENDOR TO CONFIRM THAT INTERCHANGEABILITY CERTIFICATE WILL BE PROVIDED FOR SPARES. <p>CONFIRM THAT PAINT MATERIAL SHALL BE PROCURED FROM FOLLOWING MANUFACTURER:</p> <p>a) ASIAN PAINTS INDIA LTD. b) SHALIMAR PAINTS c) JOTUN d) AKZONOBEL e) BERGER PAINTS f) GOOD LASS NEROLAC PAINTS g) BOMBAY PAINTS h) JENSON & NICHOLSON</p>	
31.	TECHNICAL REQUIREMENTS:	<p>DESIGN DATA:</p> <p>(A) CONDENSER-1: i) COOLING WATER DESIGN INLET TEMP. = 33 DEG C ii) CONDENSER DESIGN BACK PRESSURE = 56.56 mm Hg (0.0769 ATA) iii) WATER QUALITY= NORMAL WATER</p> <p>(B) CONDENSER-2: i) COOLING WATER DESIGN INLET TEMP. = 33 DEG C ii) CONDENSER DESIGN BACK PRESSURE = 71.42 mm Hg (0.0971 ATA) iii) WATER QUALITY= NORMAL WATER</p> <p>PLEASE REFER CONDENSER AIR EVACUATION PACKAGE (VACUUM PUMP PKG) SPECIFICATION, HE57016, REV 04 FOR ALL REFERENCE AND USE.</p>	
32.	GUARANTEED AUXILIARY POWER CONSUMPTION CRITERIA:	<p>A) GUARANTEED AUXILIARY POWER CONSUMPTION PER PACKAGE (INCLUDING SEAL WATER PUMP) SHALL NOT BE MORE THAN 107.5 KW AT CONDENSER DESIGN POINT (HOLDING OPERATION).</p> <p>B) LIQUIDATED DAMAGES (LD) RATE SHALL BE RS 6.0 LACS FOR EVERY KW INCREASE IN GUARANTEED AUXILIARY POWER CONSUMPTION.</p> <p>C) FOR LIQUIDATED DAMAGES (LD) IN LIEU OF AUXILIARY POWER CONSUMPTION , TWO NOS. VACUUM PUMP PACKAGE PER UNIT SHALL BE CONSIDERED.</p>	
33.	CONFLICT OF INTEREST AMONG BIDDERS/ AGENTS:	<p>A bidder shall not have conflict of interest with other bidders. Such conflict of interest can lead to anti-competitive practices to the detriment of Procuring Entity's interests. The bidder found to have a conflict of interest shall be disqualified. A bidder may be considered to have a conflict of interest with one or more parties in this bidding process, if:</p> <p>a) they have controlling partner (s) in common; or b) they receive or have received any direct or indirect subsidy/ financial stake from any of them; or c) they have the same legal representative/agent for purposes of this bid; or</p>	

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		<p>d) they have relationship with each other, directly or through common third parties, that puts them in a position to have access to information about or influence on the bid of another Bidder, or</p> <p>e) Bidder participates in more than one bid in this bidding process. Participation by a Bidder in more than one Bid will result in the disqualification of all bids in which the parties are involved. However, this does not limit the inclusion of the components/ sub-assembly/ Assemblies from. one bidding manufacturer in more than one bid; or</p> <p>f) In cases of agents quoting in offshore procurements, on behalf of their principal manufacturers, one agent cannot represent two manufacturers or quote on their behalf in a particular tender enquiry. One manufacturer can also authorise only one agent/dealer. There can be only one bid from the following:</p> <ol style="list-style-type: none"> 1. The principal manufacturer directly or through one Indian agent on his behalf; and 2. Indian/foreign agent on behalf of only one principal, · <p>or</p> <p>g) A Bidder or any of its affiliates participated as a consultant in the preparation of the design or technical specifications of the contract that is the subject of the Bid, or</p> <p>h) In case of a holding company having more than one independently manufacturing units, or more than one unit having common business ownership/management, only one unit should quote. Similar restrictions would apply to closely related sister companies. Bidders must proactively declare such sister/ common business/ management units in same/ similar line of business. "</p>													
34.	MICRO AND SMALL ENTERPRISES (MSE):	<p>Any Bidder falling under MSE category shall furnish the following details & submit documentary evidence/ Govt. Certificate etc. in support of the same along with their techno-commercial offer.</p> <table border="1" data-bbox="431 1440 1372 1602"> <thead> <tr> <th>Type under MSE</th><th>SC/ST owned</th><th>Women owned</th><th>Others (excluding SC/ & Women Owned)</th></tr> </thead> <tbody> <tr> <td>Micro</td><td></td><td></td><td></td></tr> <tr> <td>Small</td><td></td><td></td><td></td></tr> </tbody> </table> <p>Note: If the bidder does not furnish the above, offer shall be processed construing that the bidder is not falling under MSE category.</p> <p>a) MSE suppliers can avail the intended benefits in respect of the procurements related to the Goods and Services only (Definition of Goods and Services as enumerated by Govt. of India vide Office Memorandum F. No. 21(8)/2011-MA dtd. 09/11/2016 office of AS & DC, MSME) only if they submit along with the offer, attested copies of either Udyam Registration. Date to be reckoned for determining the deemed validity will be the last date of Technical Bid submission. Non-submission of supporting document in GeM portal will lead to consideration of their bids at par with other bidders. No</p>	Type under MSE	SC/ST owned	Women owned	Others (excluding SC/ & Women Owned)	Micro				Small				
Type under MSE	SC/ST owned	Women owned	Others (excluding SC/ & Women Owned)												
Micro															
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		benefits shall be applicable for this enquiry if the above required documents are not uploaded at the time of bid submission. Documents submitted by the bidder shall be verified by BHEL for rendering the applicable benefits.	
35.	JURISDICTION:	This contract shall be governed by the Law for the time being in force in the Republic of India. Subject to clause(s) mentioned above of this contract, the Civil Court having original Civil Jurisdiction at Haridwar shall alone have exclusive jurisdiction in regard to all matters in respect of the Contract.	
36.	FORCE MAJEURE:	<p>"Force Majeure" shall mean circumstance which is: a) beyond control of either of the parties to contract, b) either of the parties could not reasonably have provided against the event before entering into the contract, c) having arisen, either of the parties could not reasonably have avoided or overcome, and d) is not substantially attributable to either of the parties And Prevents the performance of the contract, Such circumstances include but shall not be limited to: i) War, hostilities , invasion, act of foreign enemies. ii) Rebellion, terrorism, revolution, insurrection, military or usurped power, or civil war. iii) Riot, commotion or disorder by persons other than the contractor's personnel and other employees of the contractor and sub-contractors. iv) Strike or lockout not solely involving the contractor's personnel and other employees of the contractor and sub-contractors. v) Encountering munitions of war, explosive materials, ionizing radiation or contamination by radio-activity, except as may be attributable to the contractor's use of such munitions, explosives, radiation or radio- activity. vi) Natural catastrophes such as earthquake, tsunami, volcanic activity, hurricane or typhoon, flood, fire, cyclones etc. vii) Epidemic, pandemic etc.</p> <p>The following events are explicitly excluded from Force Majeure and are solely the responsibilities of the non-performing party: a) any strike, work-to-rule action, goslow or similar labour difficulty (b) late delivery of equipment or material (unless caused by Force Majeure event) and (c) economic hardship.</p> <p>If either party is prevented, hindered or delayed from or in performing any of its obligations under the Contract by an event of Force Majeure, then it shall notify the other in writing of the occurrence of such event and the circumstances thereof within 15 (fifteen) days after the occurrence of such event.</p> <p>The party who has given such notice shall be excused from the performance or punctual performance of its obligations under the Contract for so long as the relevant event of Force Majeure continues and to the extent that such party's performance is prevented, hindered or delayed. The Time for Completion shall be extended by a period of time equal to period of delay caused due to such Force Majeure event.</p> <p>Delay or non-performance by either party hereto caused by the occurrence of any event of Force Majeure shall not</p>	


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Buyers Specific Additional Terms & Conditions (ATC) in addition to GTC

		<p>i) Constitute a default or breach of the Contract. ii) Give rise to any claim for damages or additional cost expense occasioned thereby, if and to the extent that such delay or non-performance is caused by the occurrence of an event of Force Majeure.</p> <p>BHEL at its discretion may consider short closure of contract after 1 year of imposition of Force Majeure in line with extant guidelines. In any case, Supplier/Vendor cannot consider deemed short-closure after 1 year of imposition of Force Majeure</p>	
37.	CARTEL FORMATION:	<p>The Bidder declares that they will not enter into any illegal or undisclosed agreement or understanding, whether formal or informal with other Bidder(s). This applies in particular to prices, specifications, certifications, subsidiary contracts, submission or non-submission of bids or any other actions to restrict competitiveness or to introduce cartelization in the bidding process. In case, the Bidder is found having indulged in above activities, suitable action shall be taken by BHEL as per extant policies/ guidelines.</p>	
38.	ORDER OF PRECEDENCE:	<p>In the event of any ambiguity or conflict between the Tender Documents, the order of precedence shall be in the order below:</p> <ol style="list-style-type: none"> Amendments/Clarifications/Corrigenda/Errata etc. issued in respect of the tender documents by BHEL. Buyer Added Bid Specific ATC GeM Bid Technical Conditions of Contract (TCC) GeM GTC 	
39.	GST HSN CODE:	PLEASE INFORM YOUR 8 DIGIT GST HSN CODE OF ITEM.	
40.	DISPATCH DOCUMENTS:	<p>Following dispatch documents to be provided immediately after directly dispatch to BHEL Project site for billing purpose:</p> <ul style="list-style-type: none"> Original consignee copies of GR/LR/RR (Material shall be dispatched on door delivery basis without consignee copy). Packing list E- Invoice and commercial inv GeM invoice Guarantee/Warrantee Certificates GST compliance certificate MRC/POD/Receipted LR/RR/GR copy (as per proof of delivery of material at BHEL Project site) CRAC request on GeM portal. MSDS (Material Safety Data Sheet) IS TO BE SENT ALONG WITH LR DOCs, IF APPLICABLE 	

SPECIAL NOTE FOR BIDDERS:

- In the event of our customer order covering this tender being cancelled /placed on hold /otherwise modified, BHEL would be constrained to accordingly cancel / hold / modify the tender at any stage of execution.
- BHEL may negotiate the L1 rate, if not meeting our budget / estimated cost. BHEL may re-float the tender opened, if L1 price is not acceptable to BHEL even after negotiation.
- Any change in applicable rates of Tax or any other statutory levies (Direct / Indirect) or any new introduction of any levy by means of statute and its corresponding liability for the deliveries beyond the agreed delivery date for

	PPX-BOI DEPARTMENT BHARAT HEAVY ELECTRICALS LIMITED HEEP: HARDWAR-249 403 (Uttarakhand) TEL: +91 1334 28 1707/1685/5773	BHEL Ref. No. 20243843 Item Name: Condenser Air Evacuation Package (Vacuum Pump Package) Project: 2X800 MW APL Raipur (Ph-II) 2X800 MW Mirzapur PH-I, 2X800 MW Kawai PH-II, 2X800 MW Kawai PH-III, 2X800 MW Mahan TPP (PH-III)
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Buyers Specific Additional Terms & Conditions (ATC) in addition to GTC

reasons not attributable to BHEL will be to vendors account. BHEL will not reimburse the same and any subsequent claim in this respect will be summarily rejected.

- d. BHEL reserves its right to reject an offer due to unsatisfactory past performance by the respective Vendor in the execution of any contract to any BHEL project / Unit.
- e. The offers of the bidders who are under suspension and also the offers of the bidders, who engage the services of the banned firms /principal/agents, shall be rejected. The list of banned firms is available on BHEL web site www.bhel.com.
- f. Recovery / deduction as applicable as per Direct and Indirect taxes as notified by Govt. Of India from time to time will be made and information/certificate for such deduction/recoveries shall be provided by BHEL to the vendor.
- g. If the delivery of supply as detailed above gets delayed beyond the delivery period, the Supplier/Vendor shall request for a delivery extension and BHEL at its discretion may extend the Contract. However, if any 'Delivery extension' is granted to the Supplier/Vendor for completion of supply, due to backlog attributable to the Supplier/Vendor, then it shall be without prejudice to the rights of BHEL to impose LD for the delays attributable to the Supplier/Vendor.
- h. In case BHEL increase the quantity during currency of the contract in line with quantity variation clause of GeM bid, delivery extension on pro-rata basis shall be given for supply of these additional quantity.

Following documents are an integral part of this Tender Enquiry and endorsed copies of these documents (duly signed and stamped on each page, as a token of acceptance) are to be submitted/uploaded along with offer on GeM portal against this bid.

1. Please submit replica of Price schedule (without prices) showing "quoted" in place of price along with techno-commercial bid (Part-I).
2. Please submit signed & Stamped copy (each page) of duly filled of confirmation column of "Buyers Specific Additional Terms & Conditions (ATC)" and its clause wise supporting documents where required.
3. Please submit certificate of Minimum local content as specified in the Annexure-B of the tender.

INTEGRITY PACT**Between**

Bharat Heavy Electricals Ltd. (BHEL), a company registered under the Companies Act 1956 and having its registered office at "BHEL House", Siri Fort, New Delhi - 110049 (India) hereinafter referred to as "The Principal", which expression unless repugnant to the context or meaning hereof shall include its successors or assigns of the ONE PART

and

_____, (description of the party along with address), hereinafter referred to as "The Bidder/ Contractor" which expression unless repugnant to the context or meaning hereof shall include its successors or assigns of the OTHER PART

Preamble

The Principal intends to award, under laid-down organizational procedures, contract/s for _____

_____ (hereinafter referred to as "Contract"). The Principal values full compliance with all relevant laws of the land, rules and regulations, and the principles of economic use of resources, and of fairness and transparency in its relations with its Bidder(s)/ Contractor(s).

In order to achieve these goals, the Principal will appoint panel of Independent External Monitor(s) (IEMs), who will monitor the tender process and the execution of the contract for compliance with the principles mentioned above.

Section 1- Commitments of the Principal

- 1.1 The Principal commits itself to take all measures necessary to prevent corruption and to observe the following principles: -
 - 1.1.1 No employee of the Principal, personally or through family members, will in connection with the tender for, or the execution of a contract, demand, take a promise for or accept, for self or third person, any material or immaterial benefit which the person is not legally entitled to.
 - 1.1.2 The Principal will, during the tender process treat all Bidder(s) with equity and reason. The Principal will in particular, before and during the tender process, provide to all Bidder(s) the same information, and will not provide to any Bidder(s) confidential/ additional information through which the Bidder(s) could obtain an advantage in relation to the tender process or the contract execution.
 - 1.1.3 The Principal will exclude from the process all known prejudiced persons.
- 1.2 If the Principal obtains information on the conduct of any of its employees which is a penal offence under the Indian Penal Code 1860 and Prevention of Corruption Act 1988 or any other statutory penal enactment, or if there be a substantive suspicion in this regard, the Principal will inform its Vigilance Office and in addition can initiate disciplinary actions.

Section 2 - Commitments of the Bidder(s)/ Contractor(s)

- 2.1 The Bidder(s)/ Contractor(s) commit himself to take all measures necessary to prevent corruption. The Bidder(s)/ Contractor(s) commits himself to observe the following principles during participation in the tender process and during the contract execution.

- 2.1.1 The Bidder(s)/ Contractor(s) will not, directly or through any other person or firm, offer, promise or give to the Principal or to any of the Principal's employees involved in the tender process or the execution of the contract or to any third person any material, immaterial or any other benefit which he/ she is not legally entitled to, in order to obtain in exchange any advantage of any kind whatsoever during the tender process or during the execution of the contract.
- 2.1.2 The Bidder(s)/ Contractor(s) will not enter with other Bidder(s) into any illegal or undisclosed agreement or understanding, whether formal or informal. This applies in particular to prices, specifications, certifications, subsidiary contracts, submission or non-submission of bids or any other actions to restrict competitiveness or to introduce cartelization in the bidding process.
- 2.1.3 The Bidder(s)/ Contractor(s) will not commit any penal offence under the relevant Indian Penal Code (IPC) and Prevention of Corruption Act; further the Bidder(s)/ Contractor(s) will not use improperly, for purposes of competition or personal gain, or pass on to others, any information or document provided by the Principal as part of the business relationship, regarding plans, technical proposals and business details, including information contained or transmitted electronically.
- 2.1.4 Foreign Bidder(s)/ Contractor(s) shall disclose the name and address of agents and representatives in India and Indian Bidder(s)/ Contractor(s) to disclose their foreign principals or associates. The Bidder(s)/ Contractor(s) will, when presenting his bid, disclose any and all payments he has made, and is committed to or intends to make to agents, brokers or any other intermediaries in connection with the award of the contract.
- 2.2 The Bidder(s)/ Contractor(s) will not instigate third persons to commit offences outlined above or be an accessory to such offences.
- 2.3 The Bidder(s)/ Contractor(s) shall not approach the Courts while representing the matters to IEMs and shall await their decision in the matter.

Section 3 - Disqualification from tender process and exclusion from future contracts

If the Bidder(s)/ Contractor(s), before award or during execution has committed a transgression through a violation of Section 2 above, or acts in any other manner such as to put his reliability or credibility in question, the Principal is entitled to disqualify the Bidder(s)/ Contractor(s) from the tender process, terminate the contract, if already awarded, exclude from future business dealings and/ or take action as per the separate "Guidelines on Banning of Business dealings with Suppliers/ Contractors", framed by the Principal.

Section 4 - Compensation for Damages

- 4.1 If the Principal has disqualified the Bidder (s) from the tender process before award / order acceptance according to Section 3, the Principal is entitled to demand and recover the damages equivalent to Earnest Money Deposit/ Bid Security.
- 4.2 If the Principal is entitled to terminate the Contract according to Section 3, or terminates the Contract in application of Section 3 above, the Bidder(s)/ Contractor (s) transgression through a violation of Section 2 above shall be construed breach of contract and the Principal shall be entitled to demand and recover from the Contractor an amount equal to 5% of the contract value or the amount equivalent to Security Deposit/ Performance Bank Guarantee, whichever is higher, as damages, in addition to and without prejudice to its right to demand and recover compensation for any other loss or damages specified elsewhere in the contract.

Section 5 - Previous Transgression

- 5.1 The Bidder declares that no previous transgressions occurred in the last 3 (three) years with any other company in any country conforming to the anti-corruption approach or with any other Public Sector Enterprise in India that could justify his exclusion from the tender process.
- 5.2 If the Bidder makes incorrect statement on this subject, he can be disqualified from the tender process or the contract, if already awarded, can be terminated for such reason or action can be taken as per the separate "Guidelines on Banning of Business dealings with Suppliers/ Contractors", framed by the Principal.

Section 6 - Equal treatment of all Bidder (s)/ Contractor (s) / Sub-contractor (s)

- 6.1 The Principal will enter into Integrity Pacts with identical conditions as this Integrity Pact with all Bidders and Contractors.
- 6.2 In case of Sub-contracting, the Principal Contractor shall take the responsibility of the adoption of Integrity Pact by the Sub-contractor(s) and ensure that all Sub-contractors also sign the Integrity Pact.
- 6.3 The Principal will disqualify from the tender process all Bidders who do not sign this Integrity Pact or violate its provisions.

Section 7 - Criminal Charges against violating Bidders/ Contractors /Subcontractors

If the Principal obtains knowledge of conduct of a Bidder, Contractor or Subcontractor, or of an employee or a representative or an associate of a Bidder, Contractor or Subcontractor which constitutes corruption, or if the Principal has substantive suspicion in this regard, the Principal will inform the Vigilance Office.

Section 8 -Independent External Monitor(s)

- 8.1 The Principal appoints competent and credible panel of Independent External Monitor (s) (IEMs) for this Integrity Pact. The task of the IEMs is to review independently and objectively, whether and to what extent the parties comply with the obligations under this Integrity Pact.
- 8.2 The IEMs are not subject to instructions by the representatives of the parties and performs his functions neutrally and independently. He reports to the CMD, BHEL.
- 8.3 The IEMs shall be provided access to all documents/ records pertaining to the Contract, for which a complaint or issue is raised before them as and when warranted. However, the documents/records/information having National Security implications and those documents which have been classified as Secret/Top Secret are not to be disclosed.
- 8.4 The Principal will provide to the IEMs sufficient information about all meetings among the parties related to the Contract provided such meetings could have an impact on the contractual relations between the Principal and the Contractor. The parties offer to the IEMs the option to participate in such meetings.

- 8.5 The advisory role of IEMs is envisaged as that of a friend, philosopher and guide. The advice of IEMs would not be legally binding and it is restricted to resolving issues raised by a Bidder regarding any aspect of the tender which allegedly restricts competition or bias towards some Bidders. At the same time, it must be understood that IEMs are not consultants to the Management. Their role is independent in nature and the advice once tendered would not be subject to review at the request of the organization.
- 8.6 For ensuring the desired transparency and objectivity in dealing with the complaints arising out of any tendering process or during execution of Contract, the matter should be examined by the full panel of IEMs jointly, who would look into the records, conduct an investigation, and submit their joint recommendations to the Management.
- 8.7 The IEMs would examine all complaints received by them and give their recommendations/ views to the CMD, BHEL at the earliest. They may also send their report directly to the CVO, in case of suspicion of serious irregularities requiring legal/ administrative action. Only in case of very serious issue having a specific, verifiable Vigilance angle, the matter should be reported directly to the Commission. IEMs will tender their advice on the complaints within 30 days.
- 8.8 The CMD, BHEL shall decide the compensation to be paid to the IEMs and its terms and conditions.
- 8.9 IEMs should examine the process integrity, they are not expected to concern themselves with fixing of responsibility of officers. Complaints alleging mala fide on the part of any officer of the Principal should be looked into by the CVO of the Principal.
- 8.10 If the IEMs have reported to the CMD, BHEL, a substantiated suspicion of an offence under relevant Indian Penal Code / Prevention of Corruption Act, and the CMD, BHEL has not, within reasonable time, taken visible action to proceed against such offence or reported it to the Vigilance Office, the IEMs may also transmit this information directly to the Central Vigilance Commissioner, Government of India.
- 8.11 After award of work, the IEMs shall look into any issue relating to execution of Contract, if specifically raised before them. As an illustrative example, if a Contractor who has been awarded the Contract, during the execution of Contract, raises issue of delayed payment etc. before the IEMs, the same shall be examined by the panel of IEMs. Issues like warranty/ guarantee etc. shall be outside the purview of IEMs.
- 8.12 However, the IEMs may suggest systemic improvements to the management of the Principal, if considered necessary, to bring about transparency, equity and fairness in the system of procurement.
- 8.13 The word 'Monitor' would include both singular and plural.

Section 9 - Pact Duration

- 9.1 This Integrity Pact shall be operative from the date this Integrity Pact is signed by both the parties till the final completion of contract for successful Bidder, and for all other Bidders 6 months after the Contract has been awarded. Any violation of the same would entail disqualification of the bidders and exclusion from future business dealings.
- 9.2 If any claim is made/ lodged during currency of this Integrity Pact, the same shall be binding and continue to be valid despite the lapse of this Pact as specified above, unless it is discharged/ determined by the CMD, BHEL.

Section 10 - Other Provisions

- 10.1 This Integrity Pact is subject to Indian Laws and exclusive jurisdiction shall be of the competent Courts as indicated in the Tender or Contract, as the case may be.
- 10.2 Changes and supplements as well as termination notices need to be made in writing.
- 10.3 If the Bidder(s)/ Contractor(s) is a partnership or a consortium or a joint venture, this Integrity Pact shall be signed by all partners of the partnership or joint venture or all consortium members.
- 10.4 Should one or several provisions of this Integrity Pact turn out to be invalid, the remainder of this Integrity Pact remains valid. In this case, the parties will strive to come to an agreement to their original intentions.
- 10.5 Only those bidders / contractors who have entered into this Integrity Pact with the Principal would be competent to participate in the bidding. In other words, entering into this Integrity Pact would be a preliminary qualification.
- 10.6 In the event of any dispute between the Principal and Bidder(s)/ Contractor(s) relating to the Contract, in case, both the parties are agreeable, they may try to settle dispute through Mediation before the panel of IEMs in a time bound manner. In case, the dispute remains unresolved even after mediation by the panel of IEMs, either party may take further action as the terms & conditions of the Contract. The fees/expenses on dispute resolution through mediation shall be shared by both the parties. Further, the mediation proceedings shall be confidential in nature and the parties shall keep confidential all matters relating to the mediation proceedings including any settlement agreement arrived at between the parties as outcome of mediation. Any views expressed, suggestions, admissions or proposals etc. made by either party in the course of mediation shall not be relied upon or introduced as evidence in any further arbitral or judicial proceedings, whether or not such proceedings relate to the dispute that is the subject of mediation proceedings. Neither of the parties shall present IEMs as witness in any Alternative Dispute Resolution or judicial proceedings in respect of the dispute that was subject of mediation.

For & On behalf of the Principal
(Office Seal)

Place Haridwar
Date _____

मनोज कुमार
Manoj Kumar
वरि. प्रबन्धक (क्रय-बी.ओ.आई.)
Sr. Manager (Purchase- BOI)
BHEL, Ranipur, HARIDWAR

For & On behalf of the Bidder/ Contractor
(Office Seal)

Witness: [Signature]
(Name & Address) HAEMID SINGH RAWAT
BHEL, HEEP Engineer (PFK-BOI)
Haridwar

Witness: _____
(Name & Address) _____

On the letterhead of statutory auditor or cost auditor of the company (in the case of companies) or a practicing cost accountant or practicing chartered accountant (in respect of suppliers other than companies

Certificate

Subject: Certificate for Minimum Local Content under PPP-MII Order No. P-45021/2/2017-PP (BE-II) Dated 04/06/2020 of Government of India.

In line with Government Public Procurement Order No. **P-45021/2/2017-PP (BE-II) Dated 04/06/2020**, we hereby certify that we hereby certify that we M/s _____ - _____ (supplier name) are local supplier. The percentage of local content in the items _____ offered by us against Enquiry No. _____ is _____ % (percentage).

Details of location at which local value addition will be made is as follows:

Sl. No.	Location Detail	% age of Local content (i.e. Local Value addition made at the location)

We also understand, false declarations will be in breach of the Code of Integrity under Rule 175(1)(i)(h) of the General Financial Rules for which a bidder or its successors can be debarred for up to two years as per Rule 151 (iii) of the General Financial Rules along with such other actions as may be permissible under law.

Seal and Signature

of statutory auditor or cost auditor of the company (in the case of companies) or a practicing cost accountant or practicing chartered accountant (in respect of suppliers other than companies)

PROJECT: M/S MEL 2X800 MW (PHASE-II) MAHAN THERMAL
POWER PROJECT, SINGRAULI, M.P.
2X800 MW ULTRA SUPER CRITICAL THERMAL POWER
PROJECT, MAHAN (PHASE-II), SINGRAULI, M.P.
PACKAGE: MAIN PLANT PACKAGE
CONTRACTOR: BHEL, Hardwar

INSPECTION AND TEST PLAN

ITEM: CONDENSOR AIR
EVACUATION PUMP PACKAGE
REV.: 06
DATE: 21.10.2016
PAGE: Page 1 of 4

OP NO. QA/BI/QP/006
SUB-SYSTEM:
TYPE OF CHECK

Sr. No	COMPONENT / OPERATION	CHARACTERISTICS	CLASS	TYPE OF CHECK	QUANTUM OF CHECK	REFERENCE / ACCEPTANCE NORMS	FORMAT OF RECORD				REMARKS
							FORMAT OF RECORD				

1.	MAIN PARTS FOR VACUUM PUMP	CHEMICAL & MECHANICAL PROPERTIES	MAJOR	CHEMICAL & MECHANICAL	PER HEAT	AS PER APPROVED DRAWING / DATASHEET	AS PER APPROVED DRAWING / DATASHEET	AS PER APPROVED DRAWING / DATASHEET	TC	V	P	V	NO WELD REPAIR PERMITTED
	• CASING • IMPELLER • SHAFT	EXAMINATION OF MACHINED SURFACES	MAJOR	VISUAL & DPT	100%	ASME VIII DIV 1 APPENDIX 7	DRAWING / VENDOR'S STD	DRAWING / VENDOR'S STD	TC	✓	P	V	V
2.	PIPE / FITTINGS (For System Pipe Work)	CHEMICAL & MECHANICAL PROPERTIES	MAJOR	CHEMICAL & MECHANICAL	100%	AS PER APPROVED DRAWING / DATASHEET	AS PER APPROVED DRAWING / DATASHEET	AS PER APPROVED DRAWING / DATASHEET	TC	✓	P	V	V
3.	PUMP BEARINGS	DIMENSIONS MAKE/TYPE	MAJOR	VISUAL	100%	AS PER APPROVED DRAWING / DATASHEET	AS PER APPROVED DRAWING / DATASHEET	AS PER APPROVED DRAWING / DATASHEET	TC	✓	P	V	V
4.	IMPELLER	DYNAMIC BALANCING	MAJOR	BALANCING AT RATED SPEED	100%	VENDOR'S STD	VENDOR'S STD	VENDOR'S STD	TC	✓	P	V	V
5.	SHAFT	UT TEST	MAJOR	CHECK	100%	ASTM A 388	ASTM A 388	AA0850118 CAT II	TC	✓	P	V	V
4a.	HEAT EXCHANGER (SHELL)	VISUAL & DIMENSIONAL	MAJOR	MEASUREMENT / VISUAL	100%	VENDOR'S DRAWING	VENDOR'S DRAWING	VENDOR'S DRAWING	-	-	P	-	-

LEGEND:
RECORDS IDENTIFIED WITH 'TICK' SHALL BE ESSENTIALLY INCLUDED BY CONTRACTOR IN QA DOCUMENTATION.
M: MANUFACTURER / SUBCONTRACTOR
I: INSPECTION AGENCY
N: CUSTOMER
W: WITNESS AND 'V' VERIFICATION
ALL 'W' INDICATED IN COLUMN 'N' SHALL BE 'CHP' OF CUSTOMER

FOR CUSTOMER
REVIEWED BY
APPROVED BY

DOC NO.
2818153

28/10/23

BHEL, Hardwar

BHEL-HW

PROJECT: MIS MEL 2X800 MW (PHASE-II) MAHAN THERMAL-
POWER PROJECT, SINGRAULI, MP
2X800 MW ULTRA SUPER CRITICAL THERMAL POWER
PROJECT, MAHAN (PHASE-II), SINGRAULI, M.P.
PACKAGE: MAIN PLANT PACKAGE
CONTRACTOR: BHEL, Haridwar

BHEL		MANUFACTURERS NAME & ADDRESS		INSPECTION AND TEST PLAN			
				ITEM: CONDENSOR AIR EVACUATION PUMP PACKAGE			
				REV.: 06			
				DATE: 21.10.2016			
				PAGE: Page 2 of 4			
				SUB-SYSTEM:			
				TYPE OF CHECK			
				QUANTUM OF CHECK			
				REFERENCE / ACCEPTANCE NORMS			
				7.			
				8.			
				9.			
				10.			

Sr. No	COMPONENT / OPERATION	CHARACTERISTICS	CLASS	TYPE OF CHECK	QUANTUM OF CHECK	REFERENCE / ACCEPTANCE NORMS	FORMAT OF RECORD	AGENCY	REMARKS
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.
		CHEMICAL & MECHANICAL PROPERTIES OF TUBES / TUBE SHEET / SHELL	MAJOR	CHEMICAL & MECHANICAL	PER HEAT	APPROVED DRAWING / DATASHEET	APPROVED DRAWING / DATASHEET	TC	
		EDDY CURRENT TEST ON TUBES	MAJOR	ECT	100%	APPROVED DRAWING / DATASHEET	APPROVED DRAWING / DATASHEET	TC	
		SOUNDNESS OF WELD	MAJOR	X RAY OF BUTT WELDS	10%	APPROVED DRAWING / DATASHEET ASME V	APPROVED DRAWING / DATASHEET ASME VIII DIV 1	TC	
		HYDRAUSTATIC TEST	MAJOR	PRESSURE TEST SHELL & TUBE SIDES	100%	APPROVED DRAWING / DATASHEET	APPROVED DRAWING / DATASHEET	TC	
6	MOTOR	IDENTITY ROUTINE TEST TYPE REPORT	MAJOR	VISUAL & MEASUREMENT TEST	100%	IEC 60034 / IEC 34.1 / BES 4999	IEC 60034 / IEC 34.1 / BES 4999	TC	Type Test Of Same Vendor, Model, Rating Shall be Reviewed
		Energy Efficiency		Energy efficiency class -eff 1	100%	IEC: 60034-30/1S 12615	IEC: 60034-30/1S 12615	COC	

Digitally signed by Bhabhu Shah DN: cn=Bhabhu Shah, o=BHEL, ou=BHEL, email=bhabhu@bhelwrc.co.in, c=IN	LEGEND: I RECORDS IDENTIFIED WITH 'TICK' SHALL BE ESSENTIALLY INCLUDED BY CONTRACTOR IN QA DOCUMENTATION. II M: MANUFACTURER / SUBCONTRACTOR C: CONTRACTOR / NOM. N: CUSTOMER INDICATE 'P' PERFORM 'W' WITNESS AND 'V' VERIFICATION ALL 'W' INDICATED IN COLUMN 'N' SHALL BE 'CHP' OF CUSTOMER		FOR CUSTOMER REVIEWED BY APPROVED BY	DOC NO. APPROVED BY
	Date: 2016.10.21 09:45:16 +0530		28/8/23	

Bhabhu Shah
 BHEL, Haridwar
 28/8/23

PROJECT: M/S MEL 2X800 MW (PHASE-II) MAHAN THERMAL-
POWER PROJECT, SINGRAULI, M.P.
2X800 MW ULTRA SUPER CRITICAL THERMAL POWER
PROJECT, MAHAN (PHASE-II), SINGRAULI, M.P.
PACKAGE: MAIN PLANT PACKAGE
CONTRACTOR: BHEL, Haridwar

INSPECTION AND TEST PLAN

QIP NO. QA/BI/QIP/006
REV.: 06
DATE: 21.10.2016
PAGE: Page 3 of 4

SUB-SYSTEM:

ITEM: CONDENSOR AIR
EVACUATION PUMP PACKAGE

MANUFACTURERS NAME & ADDRESS

BHEL

Sr. No		Component / Operation	Characteristics	Class	Type of Check	Quantum of Check	Reference /Acceptance Norms	Format of Record		Agency			Remarks
								8.	D	M	C	N	
1.		2.	3.	4.	5.	6.	7.	8.		9.		10.	

7	INSTRUMENTS TEMP / PRESSURE GAUGES	CALIBRATION AND ACCURACY	MAJOR	CALIBRATION	100%	AS PER VENDOR STD / APPROVED DRAWING / DATASHEET	COC	✓	P	V	V			
8														
9	PACKAGE ASSEMBLY	HYDROSTATIC TEST PERFORMANCE TEST	MAJOR	PRESSURE TEST	100%	VENDOR'S STD	TC	✓	P	W	W			IF APPLICAS LE
				CAPACITY & POWER VS SUCTION	100%	VENDOR'S STD	TC	✓	P	W	W			CHP
				PRESSURE PROGRAMME DEMONSTRATION	100%	AS PER APPD	TC	✓	P	W	W			CHP
		PLC		WRITE UP		AS PER APPD		✓	P	W	W			CHP
		NOISE MEASUREMENT		NOISE LEVEL CHECK	100%	VENDOR'S STD	TC	✓	P	W	W			CHP

MANUFACTURER'S / SUB-CONTRACTOR CONTR.	Digitally signed by vibhuti shah DN: cn=vibhuti shah, o=BHEL, ou=bhel, email=vibhuti@ bhelhyr.co.in,	LEGEND: ! RECORDS IDENTIFIED WITH 'TICK' SHALL BE ESSENTIALLY INCLUDED BY CONTRACTOR IN QA DOCUMENTATION. !! M: MANUFACTURER / SUBCONTRACTOR ! N: INSPECTION AGENCY INDICATE 'P' PERFORM 'W' WITNESS AND 'V' VERIFICATION ALL 'W' INDICATED IN COLUMN 'N' SHALL BE 'CHP' OF CUSTOMER	FOR CUSTOMER REVIEWED BY	DOC NO.
			APPROVED BY	

28/8/23
BHEL, Haridwar

PROJECT: M/S MEL 2X800 MW (PHASE-II) MAHAN THERMAL
POWER PROJECT, SINGRAULI, M.P.
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INSPECTION AND TEST PLAN

MANUFACTURERS NAME & ADDRESS

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ITEM: CONDENSOR AIR
EVACUATION PUMP PACKAGE

QP NO. QA/BI/QP/006

REV.: 06

DATE: 21.10.2016

PAGE: Page 4 of 4

SUB-SYSTEM:

Sr. No	COMPONENT / OPERATION	CHARACTERISTICS	CLASS	TYPE OF CHECK	QUANTUM OF CHECK	REFERENCE / ACCEPTANCE NORMS	FORMAT OF RECORD				REMARKS
							M	C	N	D	
1.		3.	4.	5.	6.	7.				9.	10.

Sr. No	COMPONENT / OPERATION	CHARACTERISTICS	CLASS	TYPE OF CHECK	QUANTUM OF CHECK	REFERENCE / ACCEPTANCE NORMS	FORMAT OF RECORD				REMARKS
							M	C	N	D	
		VIBRATION		-VIBRATION CHECK	100%	VENDOR'S STD					
		VISUAL / DIMENSIONAL		VISUAL / MEASUREMENT	100%	VENDOR'S STD					
10	COMPLETE PACKAGE	CONFIRMATION FOR COMPLETENESS OF BHEL APPD. PID	MAJOR	VISUAL	100%	AS PER BHEL APPD. PID					
11.	PAINTING & PACKING		MAJOR	CHECK	100%	VENDOR'S STD					

NOTE: - TYPE TESTS - HUMID AIR TEST AND CAVITATION TO BE DONE ONLY ONCE PER PUMP TYPE

Digitally signed
by vibhuti shah
DN: cn=vibhuti shah, o=BHEL, email=vibhuti.shah@bhel.co.in
Date: 2016.10.21 09:45:37 +05'30'

MANUFACTURER/SUB CONTRACTOR	CONTRACTOR	LEGEND: 1 RECORDS IDENTIFIED WITH 'TICK' SHALL BE ESSENTIALLY INCLUDED BY CONTRACTOR IN QA DOCUMENTATION. !! M: MANUFACTURER / SUBCONTRACTOR INSPECTION AGENCY INDICATE 'P' PERFORM 'W' WITNESS AND 'V' VERIFICATION N: CUSTOMER C: CONTRACTOR / NOM.	FOR CUSTOMER REVIEWED BY	DOC NO. APPROVED BY

28/8/23

DEEPAK V J

<div>adaniTM</div>		STANDARD QUALITY PLAN								Approved by QA				
		ITEM : LT MOTOR				SQP NO: ADANI/QA/SQP/E/002 REV. NO.:02 DATE: 12.03.2016 PAGE: 1 of 9								
SL No.	COMPONENT/ OPERATION	CHARACTERISTICS	CATEGORY OF CHECK	TYPE OF CHECK	QUANTUM OF CHECK		REFERENCE DOCUMENT	ACCEPTANCE NORMS	FORMAT OF RECORD		INSPECTION AGENCY			REMARKS
					M	C/A					M	C	A	
1	2	3	4	5	6		7	8	9	*D	**10			11
1. Boughtout Items / Raw Material														
1.1	A) C.I. Frame & End Bracket/Shield/Base Frame (If Applicable)	Visual Check for defects	Major	Visual	100%	100%	Mfg. Works Drg.	No casting defects	MTC		P	V	V	Weld Repair On Cast Frame Is Not Acceptable.
		Tensile Strength & Brinell Hardness		Mech	1 Sample/ Heat	1 Sample/ Heat	IS 210	IS 210		√	P	V	V	
		Dimension		Meas	1 Sample/ Lot	1 Sample/ Lot				√	P	V	V	
		Chemical Properties		Chemical	1 Sample/ Lot	1 Sample/ Lot				√	P	V	V	
		Pressure Testing (Applicable for flame proof motors only)		Mech	1 Sample/ Lot	1 Sample/ Lot	IEC 60079-I	IEC 60079-I		√	P	V	V	
	B) Fab.Frame & End Bracket/ Base Frame (If Applicable)	Visual Check for defects	Major	Visual	100%	100%	Mfg. Works Drg.	Smooth Finish	MTC/ITR		P	V	V	
		Dimension		Measure	1 Sample/ Lot	1 Sample/ Lot		Mfg. Works Drg.		√	P	V	V	
		Tensile Strength & % Elongation		Mech	1 Sample/ Lot	1 Sample/ Lot	IS 2062	IS 2062		√	P	V	V	
		Heat Treatment (Applicable for thickness above 18 mm)		Thermal	100%	100%	ASME SEC 8 DIV. 1 & 2	ASME SEC 8 DIV 1 & 2		√	P	V	V	
		Chemical Composition		Chemical	1 Sample /Lot	1 Sample /Lot	IS 2062	IS 2062		√	P	V	V	
1.2	Electrical Steel Stamping For Stator & Rotor	Dimensions	Major	Measure	1 Sample /Batch	1 Sample /Batch	IS 648 / IS 649	IS 648 / IS 649	MTC	√	P	V	V	
		Burr Height		Measure						√	P	V	V	
		Material		Mech						√	P	V	V	
		Core Loss		Elect						√	P	V	V	
		Stacking Factor								√	P	V	V	
		Insulation Resistance		Elect						√	P	V	V	

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SL No.	COMPONENT/ OPERATION	CHARACTERISTICS	CATEGORY OF CHECK	TYPE OF CHECK	QUANTUM OF CHECK		REFERENCE DOCUMENT	ACCEPTANCE NORMS	FORMAT OF RECORD	*D	INSPECTION AGENCY			REMARKS
					M	C/A					M	C	A	
1	2	3	4	5	6		7	8	9		**10			11
1.2	Electrical Steel Stamping For Stator & Rotor	Bend Test	Major	Measure	1 Sample/ Batch	1 Sample/ Batch	IS 648/IS 649	IS 648/IS 649	MTC	√	P	V	V	
		Coating Thickness		√						P	V	V		
		AC Magnetization		√						P	V	V		
1.3	Forged Shaft - Normalised (If Applicable)	Dimension & Visual	Major	Measure	100%	100%	Mfg. Works Drg.	Mfg. Works Drg.	ITR	√	P	V	V	Ultra sonic test is applicable for shaft dia 50mm & above. Refer Note- 2 At Page 11
		Chem. Composition	Major	Chemical	1 Sample / Heat	1 Sample / Heat	BS 970 IS 1570- 4SCB (N)	BS 970 IS 1570- 4SCB (N)	MTC	√	P	V	V	
		Mech Properties	Critical	Mech						√	P	V	V	
		I) % Elongation								√	P	V	V	
		II) Ultimate Tensile Strength								√	P	V	V	
		III) Hardness (If Applicable)								√	P	V	V	
		IV) Impact Test (If Applicable)								√	P	V	V	
		V) Yield Strength								√	P	V	V	
	Ultrasonic Test	Critical	NDT	100%	100%	ASTM A 388 & NOTE 2	ASTM A 388 & NOTE 2	NDT Report	√	P	V	V		
	Steel Shaft Rolled Bar (If Applicable)	Dimension	Major	Measure	100%	100%	Mfg. Works Drg.	Mfg. Works Drg.	MTC / ITR	√	P	V	V	Ultra sonic test is applicable for shaft dia 50mm & above.
		Mechanical Properties	Critical	Mech	1 Sample / Heat	1 Sample / Heat	IS 1570-II / AISI 431	IS 1570-II / AISI 431		√	P	V	V	
		Chemical Properties	Major	Chemical						√	P	V	V	
		Ultra Sonic Test	Critical	NDT	ASTM A-388 & NOTE 2	ASTM A-388 & NOTE 2	NDT Report	√	P	V	V	Refer Note- 2		
1.3.1	Shaft Rib (If Applicable)	Chemical Comp.	Major	Visual	100%	100%	BS 970	BS 970	MTC	√	P	V	V	
		Mechanical Prop. (Tensile Strength & % Elongation)	Major	Measure	100%	100%				√	P	V	V	
		UT On Plates > 40Mm Thick	Major	NDT	100%	100%	ASTM A 435	ASTM A 435, (LAMINATION IN PLATE IS NOT ACCEPTABLE)	NDT Report	√	P	V	V	

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SL No.	COMPONENT/ OPERATION	CHARACTERISTICS	CATEGORY OF CHECK	TYPE OF CHECK	QUANTUM OF CHECK		REFERENCE DOCUMENT	ACCEPTANCE NORMS	FORMAT OF RECORD		INSPECTION AGENCY			REMARKS
					M	C/A					M	C	A	
1	2	3	4	5	6		7	8	9	*D	**10			11
1.4	Aluminum Die Cast Rotor (If Applicable)	Dimension (Core Length & Inner Diameter)	Major	Mech	100%	100%	Mfg. Works Drg.	Mfg. Works Drg.	MTC	√	P	V	V	
		Casting Defects	Major	Visual	100%	100%	No blow holes & crack	No blow holes & crack		√	P	V	V	
		Mechanical Properties of (Aluminum Ignot)	Major	Mech	1 Sample/ Lot	1 Sample/ Lot	IS 4026	IS 4026		√	P	V	V	
		Conductivity (of Aluminum Ignot)	Major	Elect						√	P	V	V	
		Chemical Composition	Major	Chemical						√	P	V	V	
		Aluminum Grade	Critical	Chemical						√	P	V	V	
1.5	Slip Ring (Applicable for slip ring motor only)	Dimension	Major	Measure	100%	100%	Mfg. Works Drg.	Mfg. Works Drg.	MTC	√	P	V	V	
		HV Test		Elect	100%	100%	Mfg. Works Std.	Mfg. Works Std.		√	P	V	V	
		Heat Sock Test		Elect	1 Sample / Lot	1 Sample / Lot				√	P	V	V	
1.6	Enamelled Copper Wire (If Applicable)	Dimension (Overall Diameter, Bare Diameter, Coating Thiickness, etc.)	Major	Measure	IS 13730	IS 13730	IS 13730	IS 13730	MTC	√	P	V	V	
		Elongation		Mech						√	P	V	V	
		Heat Shock		Mech						√	P	V	V	
		Resistance to Abrasion		Elect						√	P	V	V	
		Peel Test		Visual						√	P	V	V	
		Cut Through Test		Elect						√	P	V	V	
		Break Down Voltage @ Room Temperature		Elect						√	P	V	V	
		Mandrel Winding Test		Mech						√	P	V	V	
		Continuity Test (Pin Hole Test)		Elect						√	P	V	V	


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SL No.	COMPONENT/ OPERATION	CHARACTERISTICS	CATEGORY OF CHECK	TYPE OF CHECK	QUANTUM OF CHECK		REFERENCE DOCUMENT	ACCEPTANCE NORMS	FORMAT OF RECORD		INSPECTION AGENCY			REMARKS
					M	C/A					M	C	A	
1	2	3	4	5	6		7	8	9	*D	**10			11
1.7	Double Glass Lapped Enamelled Copper Conductor (If Applicable)	Tensile Strength, % Elongation, Cu Purity, Oxygen Content & Flexibility, Hardness	Major	Verify	1 Sample/ Lot	1 Sample/ Lot	IS 10114	IS 10114	MTC	√	P	V	V	
		Breadk Down Voltage Test		1 Sample /Lot	1 Sample /Lot	√				P	V	V		
		Dimension				√				P	V	V		
		Resistivity				√				P	V	V		
1.8	High Conductivity Annealed Copper Strip Covered By Film Backed Mica, Paper Tape (If Applicable)	Dimension	Major	Measure	1 Sample / Lot	1 Sample / Lot	Mfr Std / Spec	Mfr Std / Spec	MTC	√	P	V	V	
		Chemical Composition		Chemical						√	P	V	V	
		Breadk Down Voltage Test		Elect						√	P	V	V	
		Tensile Strength		Mech						√	P	V	V	
		Resistivity		Elect						√	P	V	V	
		Springness		Measure						√	P	V	V	
1.9 Rotor Conductor For Sq. Cage Rotor														
1.9.1	Hard / Half Hard Drawn Copper Bar (If Applicable)	Dimension	Major	Measure	Sample	Sample	BS 1432/ BS 1433/ IS 1897	BS 1432/ BS 1433/ IS 1897	MTC	√	P	V	V	
		Conductivity		Elec						√	P	V	V	
		Mech Properties		Measure						√	P	V	V	
		Chemical Composition								√	P	V	V	
		Oxygen Content								√	P	V	V	
1.9.2	Forged Copper End Ring (If Applicable)	Dimension	Major	Measure	Sample	Sample	BS 6017	BS 6017	ITR	√	P	V	V	
		Conductivity		Elec	Sample/ Heat	Sample/ Heat			√	P	V	V		
		Chem. Composition		Chem					√	P	V	V		
			Ultrasonic Test	Major	NDT	100%	100%	ASME SEC 5	ASME SEC 5, NO DEFECT IS ALLOWED	MTC	√	P	V	

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SL No.	COMPONENT/ OPERATION	CHARACTERISTICS	CATEGORY OF CHECK	TYPE OF CHECK	QUANTUM OF CHECK		REFERENCE DOCUMENT	ACCEPTANCE NORMS	FORMAT OF RECORD		INSPECTION AGENCY			REMARKS
					M	C/A					M	C	A	
1	2	3	4	5	6		7	8	9	*D	**10			11
1.10	Insulating Paper	Type of Paper	Major	Visual	IEC 60626	IEC 60626	IEC 60626	IEC 60626	MTC	√	P	V	V	
		Thickness		Mech						√	P	V	V	
		Tensile Strength		Mech						√	P	V	V	
		Thermal Properties		Thermal						√	P	V	V	
		Dielectric Strength (BDV)		Elect						√	P	V	V	
1.11	Mica Paper (If Applicable)	Thickness	Major	Measure	1 Sample/ BaTCh	1 Sample/ BaTCh	IS 10192	IS 10192	MTC		P	V	V	
		BDV Test		Elec							P	V	V	
		Shelf Life		Visual	100%	100%					P	V	V	
1.12	Rotor Turning	Dimesion	Major	Visual	100%	100%	App. Drg	APP. DRG	ITR		P	V	V	
1.13	Varnish	Shelf Life	Major	Visual	1 Sample/ Batch	1 Sample/ Batch	IS 10026	IS 10026	MTC	√	P	V	V	
		Colour & Appearance		Visual						√	P	V	V	
		Curing in Thin Layer		Visual						√	P	V	V	
		Solid Content		Measure						√	P	V	V	
		Compatibility with Thinner		Visual						√	P	V	V	
		Viscosity		Mech						√	P	V	V	
											P	V	V	
1.14	Single Pack Solvent Less Epoxy Resin	Applied Viscosity	Major	Measure	1 Sample / Lot	1 Sample / Lot	Manufactuer's Standard / Spec	Manufactuer's Standard / Spec	ITR		P	V	V	
		Gel Time									P	V	V	
1.15	Tape For Over Hang	Thickness & Width	Major	Measure	1 Sample/ BaTCh	1 Sample/ BaTCh	Manufactuer's Standard / Spec	Manufactuer's Standard / Spec	MTC		P	V	V	
		Glass Fiber Content		Test							P	V	V	
		High Voltage Test		Elect							P	V	V	
1.16	Glass Fibre Sleeving (If Applicable)	Bore Dia	Major	Measure	1 Sample/ BaTCh	1 Sample/ BaTCh	IS 11654 PT 2	IS 10192	MTC		P	V	V	
		Wall Thickness								P	V	V		
		High Voltage Test		Elec							P	V	V	
1.17	Epoxy Glass Laminated Sheet (Wedges) (If Applicable)	Thickness	Major	Measure	1 Sample/ BaTCh	1 Sample/ BaTCh	IS 10192	IS 10192	MTC		P	V	V	
		High Voltage Test									P	V	V	

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SL No.	COMPONENT/ OPERATION						CHARACTERISTICS	CATEGORY OF CHECK	TYPE OF CHECK	QUANTUM OF CHECK				
					M	C/A					M	C	A	
1	2	3	4	5	6		7	8	9	*D	**10			11
1.18	Bearing and Grease	Type & Make	Major	Visual	100%	100%	Mfg. Catalouge	As per plant standard/ drawing	ITR		P	V	V	
1.19	Space Heater (If Applicable)	High Voltage (2kV for 01 minute)	Major	Elec	100%	100%	Approved Datasheet	Withstood	ITR		P	V	V	
		Resistance								P	V	V		
		Insulation Resistance								P	V	V		
		Dimension								P	V	V		
1.20	R.T.D./B.T.D (If Applicable)	Insulation Resistance	Major	Elec	100%	100%	IS 2848	IS 2848	MTC		P	V	V	
		High Voltage (2kV for 01 minute)		Elec			Approved Datasheet	Withstood			P	V	V	
		Resistance		Elec			IS 2848	IS 2848			P	V	V	
		Pull Out Test		Mech			Mfg. Catalouge	Mfg. Catalouge			P	V	V	
1.21	B.T.D (Dial Type) (If applicable)	Check For Visual Damage	Major	Visual	100%	100%	Works Drawing	Works Drawing	MTC / ITR	√	P	V	V	
Calibration	Verify	√		P						V	V			
1.22	Fan (M.S. / Plastic - If Applicable)	Dimension	Major	Measure	Sample	Sample	Works Drawing/ IS 2062	Works Drawing/ IS 2062	MTC		P	V	V	
		Chemical & Mechanical (For M.S.)		Test							P	V	V	
2 .In-Process Inspection														
2.1	Stator Frame	Dimension	Major	Measure	100%	100%	Mfg. Works Drg.	Mfg. Works Drg.	ITR		P	V	V	
		Appearance		Visual			Free from defects	Free from defects			P	V	V	
2.2	Stator & Rotor Core Building	Core Length & Inner diameter	Major	Measure	100%	100%	Mfg. Works Drg.	Mfg. Works Drg.	ITR		P	V	V	
		Slot Alignment		Visual							P	V	V	
		Core Rigidity									P	V	V	
		Cleanliness	Major	Visual							P	V	V	
		Stator & Rotor Dimension		Measure							P	V	V	
2.3	Wound Stator	Surge Test	Major	Elec	100%	100%	Works Std	Works Std	ITR		P	V	V	
		Insulation Resistance (Before & After HV)					IS 325	IS-325			P	V	V	
		High Voltage Test					Works Drg.	Withstood			P	V	V	
		Winding Resistance						Works Drg.			P	V	V	
2.4	Rotor Cage Assembly	Visual Test	Major	Visual	100%	100%	Works Std	Works Std	ITR		P	V	V	
		UT Of Brazed Cage Rotor		NDT							P	V	V	
		Dynamic Balancing (Residual Unbalance)		Visual			ISO 1940	ISO 1940			P	V	V	

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Approved by QA																		
SL No.	COMPONENT/ OPERATION	CHARACTERISTICS	CATEGORY OF CHECK	TYPE OF CHECK	QUANTUM OF CHECK		REFERENCE DOCUMENT	ACCEPTANCE NORMS	FORMAT OF RECORD		INSPECTION AGENCY			REMARKS				
					M	C/A					M	C	A					
1	2	3	4	5	6		7	8	9	*D	**10			11				
2.5	Varnish Impregnation	Preheating	Major	Measure	100%	100%	Mfr Std / Spec	Mfr Std / Spec	ITR		P	V	V					
		Curing Cycle									P	V	V					
		Baking Temperature									P	V	V					
		Pressure									P	V	V					
		Gel Time									P	V	V					
		Viscosity			02 Sample/ Shift	02 Sample/ Shift					P	V	V					
		Vacuum Pressure Impregnation (If Applicable)			Daily	Daily					P	V	V					
3. Final Motor																		
3.1	Complete Motor	Location Of Terminal Box etc	Major	Visual	100%	100%	App GAD	App GAD	IR	√	P	V	V					
		Marking On Rating Plates & Earthing Arrangement		Measure			IS 2223			√	P	V	V					
		Shaft Run Out								√	P	V	V					
3.2	Final Assembly & General Check	Fitting Of Sub Assembly & Components	Major	Visual / Measure	100%	100%	Works Drg & Datasheet	Works Drg & Datasheet	IR	√	P	H	H					
		Fitting Of Accessories e.g. RTD, BTd, Heaters, etc.		Measure			BOM	Works Drg & Datasheet		√	P	H	H					
		Dimensional Check					GA DRG.			√	P	H	H					
3.3	Terminal Marking	General Check	Major	Visual	100%	100%	Works Drg.	Works Drg & Datasheet		√	P	H	H					
3.4	Acceptance Test	DC Resistance Measurement Of Stator Winding, Rotor Winding (for slip ring motor only), RTD, BTd & Space Heater at ambient Temp.	Critical	Elec	100%	100%	IS 325, IS 4029 IEC 60034	IS 325, IS 4029 IEC 60034		√	P	H	H					
		O.C. Voltage ratio of stator & rotor windings (for slip ring motor only)					IS 325, IS 4029 IEC 60034	IS 325, IS 4029 IEC 60034		√	P	H	H					

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SL No.	COMPONENT/ OPERATION	CHARACTERISTICS	CATEGORY OF CHECK	TYPE OF CHECK	QUANTUM OF CHECK		REFERENCE DOCUMENT	ACCEPTANCE NORMS	FORMAT OF RECORD		INSPECTION AGENCY			REMARKS
					M	C/A					M	C	A	
1	2	3	4	5	6		7	8	9	*D	**10			11
3.4	Acceptance Test	IR Measurement Of Widg. Space Heater & RTD, BTD Before & After HV Test	Critical	Elec	100%	100%	IS-4722-1992	IS-4722-1992	IR	√	P	H	H	NOTE 1: Type Test Certificate. not Older Than Five Years from the date of award duly reviewed & accepted by Owner'S Engg For Similar Type, Size & Rating Of Motor shall be submitted along with Inspection Call. In Case The Type Test Is Specially Required As Per The Technical Spec., Same Shall Be Witnessed.
		No-Load Test at 90% 100% & 110% of rated voltage and measure no load power, current & no load speed.					IS 325, IS 4029 IEC 60034	√		P	H	H		
		Reduced voltage running up test (for squirrel cage motors)						√		P	H	H		
		Locked Rotor Test at rated Current & measure Voltage , Power						√		P	H	H		
		Polarization Index						√		P	H	H		
		High Voltage Test For Winding, RTD, BTD & Space Heater						Withstood		√	P	H	H	
		Over Speed Test At 120% Of Rated speed for 02 min						IS 325 & IEC 60034		√	P	H	H	
		Phase Sequence, Direction Of Rotation & Motor RPM						App Drg		√	P	H	H	
		Vibration Measurement at Rated Speed & Voltage		Mech			IS 12075, IS 325 & IEC 60034	IS 12075, IS 325 & IEC 60034		√	P	H	H	
		Noise Measurement at Rated Speed & Voltage					IS 12065, IS 325 & IEC 60034	IS 12065, IS 325 & IEC 60034		√	P	H	H	
		Visual Check, Dimension, & Cable Entry, Location Of Main Terminal Box		Visual			App Drg	App Drg		√	P	H	H	
		Marking On Rating Plate, Earthing Arrangement								√	P	H	H	
		Degree Of Protection		Verify			IS-12063	IS-12063		T.C	√	P	V	

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					M	C/A				*D	M	C	A	
1	2	3	4	5	6		7	8	9		**10			11
3.5	Painting & Finishing	Finish, Shade, DFT & Adhesion	Major	Visual	100%	100%	App Drg & Datasheet	App Drg & Datasheet	IR	√	P	H	H	
<p>NOTE 2: ACCEPTANCE NORM FOR UT OF SHAFT:-</p> <p>1) CRACKS, FLAKES, SEAMS & LAPS ARE NOT ACCEPTABLE IN THE SHAFT FORGING.</p> <p>2) FOLLOWING DEFECTS IN THE OUTER REGION OF SHAFT BETWEEN 75% TO 100% OF SHAFT RADIUS ARE NOT ACCEPTABLE:-</p> <p>I) ANY DEFECT GIVING INDICATION LARGER THAN THAT FROM 2MM DIAMETER EQUIVALENT FLOW.</p> <p>II) GROUP OF DEFECT WITH MAX. INDICATION LESS THAN THAT FROM A 2 MM DIAMETER EQUIVALENT FLOW WHICH CANNOT BE SEPARATED AT TESTING SENSITIVITY, IF THE BACK ECHO IS REDUCED TO LESS THEN 70% OF FSH.</p> <p>III)THE DEFECTS GIVING INDICATIONS OF 1 TO 2 MM DIAMETER EQUIVALENT FLOW SEPARATED BY A DISTANCE LESS THEN FOUR TIMES THE SIZE OF THE LARGER OF THE ADJACENT FLOWS.</p> <p>3) FOLLOWING DEFECTS IN THE SHAFT BETWEEN CENTRE OF THE SHAFT TO 75% OF SHAFT RADIUS ARE NOT ACCEPTABLE:-</p> <p>I) ANY DEFECT GIVING INDICATION LARGER THAN THAT FROM 4 MM DIAMETER EQUIVALENT FLOW.</p> <p>II) GROUP OF DEFECT WITH MAX. INDICATION LESS THAN THAT FROM A 4 MM DIAMETER EQUIVALENT FLOW WHICH CANNOT BE SEPARATED AT TESTING SENSITIVITY, IF THE BACK ECHO IS REDUCED TO LESS THEN 50% OF FSH.</p> <p>III)THE DEFECTS GIVING INDICATIONS OF 2 TO 4 MM DIAMETER EQUIVALENT FLOW SEPARATED BY A DISTANCE LESS THEN FOUR TIMES THE SIZE OF THE LARGER OF THE ADJACENT FLOW..</p> <p>NOTE 3: THIS SQP IS APPLICABLE FOR 45 kW & ABOVE RATING MOTORS. BELOW 45 kW MOTORS, MANUFACTURER TO CARRYING OUT INTERNAL ROUTINE TEST AND TEST REPORT OF SAME TO BE SUBMITTED FOR REVIEW.</p> <p>LEGEND:- D* Records identified with tick (√) shall be essentially included by supplier & manufacturer in Quality Documentation package.</p> <p>** M: Manufacturer / Sub-Supplier, C: Main Supplier , A: Adani or their authorized representative.</p> <p>Use the following term as appropriate in columns 10. P: Perform, V: verification and H: Customer Hold Point to be witnessed and work shall not proceeded till it is witnessed and cleared in writing.</p> <p>Format of Record: MTC: Manufacturer/Sub-supplier Test Certificate, ITR: Inprocess Test Report/Record, IR: Inspection Report</p> <p>GENERAL NOTE:-</p> <p>- Manufacturer should have all the in house testing (Acceptance & Routine Test) facilities for LT Motor.</p> <p>- Testing Instruments used during Inspection must be calibrated from NABL accredited lab only. Instruments used during testing should be within valid calibration date.</p>														